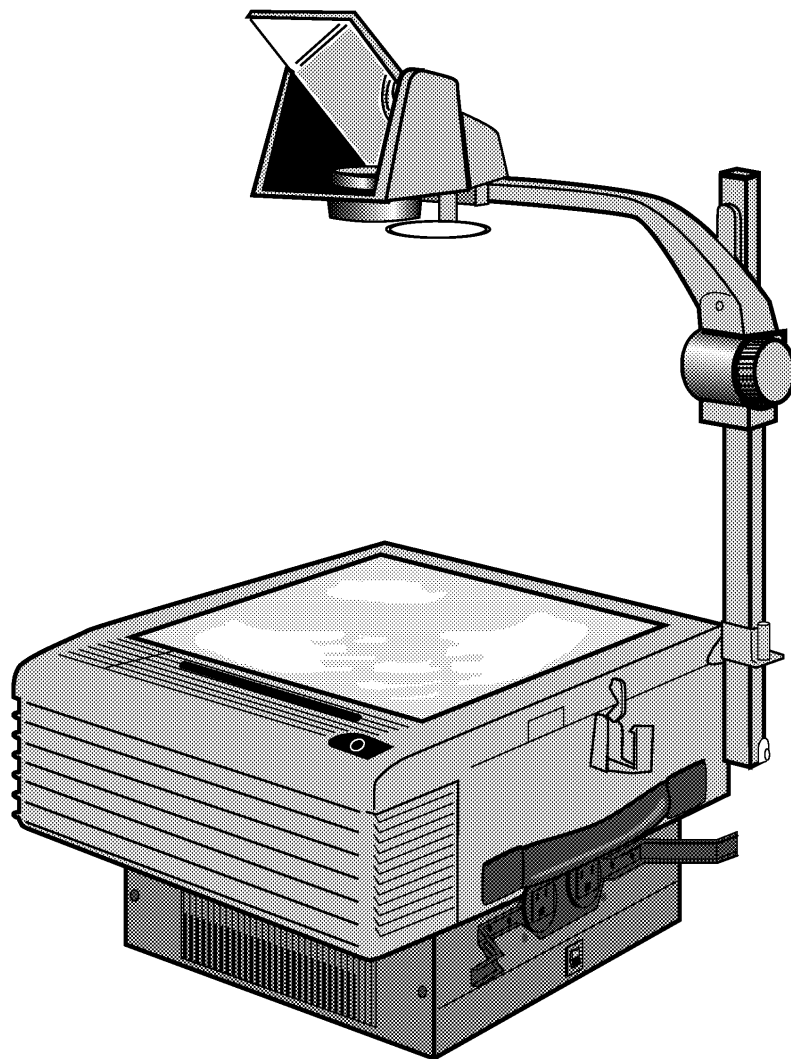


3M

9800 Overhead Projector

Illustrated Parts Breakdown



3M Visual Systems Division

6801 River Place Boulevard
Austin, Texas 78726-9000

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April 2000, 78-6970-5567-7 Rev. D

Revision History

Revision bars placed in the margins (|) indicate where additions or changes to a parts identification list occurred. Items deleted from a parts identification list are indicated on this page only. Changes to illustrations are not indicated by revision bars, nor shown in this revision history.

The original issue of this manual and subsequent revisions are identified as follows:

Issue date: 9/94

Revision	Date	Page(s) Changed	Change
Original	September 1994	All pages	
Rev. B	April 1996	All pages	
Rev. C	February 1997	All pages	
Rev D	April 2000	All pages	
		Page 2	Changed part number of the Quick Reference Parts Index - Stage Glass from 78-8097-3525-7 to 78-8079-8975-7, and the part number of the Interlock Switch from 78-8015-5038-1 to 78-8073-3039-0, the part number of the Micro Switch from 78-8079-8823-9 to 78-8079-8855-1, the part number of the Triplet Lens from 78-8097-3694-1 to 78-8097-3693-3. Added new Interlock Switch Cover 78-8073-3043-2.
		Page 5	Changed item 3 from 78-8097-3694-1 to 78-8097-3693-3.
		Page 9	Changed item 2 from 78-8054-1768-6 to 78-8120-2943-3, and item 7 from 78-8097-3525-7 to 78-8079-8975-7.
		Page 10	Added item 19 to Section 4, Arm And Focus Assembly art.
		Page 11	Added new 0A, Focus Arm Upgrade Kit (Europe only) (DY-0210-2704-9), and new 0B, Focus Arm Upgrade Kit (78-8054-1820-5). Changed item 2 to 2A and added (metal arm version). Added new item 2B, Focus Arm Cap (78-8120-2930-0). Changed item 13 from 78-8079-8960-9 to 78-8120-2942-5. Changed item 14 to 14A, and added (metal arm version). Added new item 14B, Wear Pad (78-8120-2925-0), and new item 19, Standoff Plate (78-8120-2920-1).
		Page 19	Changed item 4 to "Not Available" (Reference only).

Revision History (Continued)

Revision	Date	Page(s) Changed	Change
Rev D	April 2000	Page 23	Changed item 3 from 78-8015-5038-1 to 78-8073-3039-0, and added new item 20, Interlock Switch Cover (78-8073-3043-2).
		Page 25	Changed item 27 from 78-8099-8772-6 to 78-8097-3649-5.
		Page 27	Changed item 35 from 78-8097-3649-5 to 78-8099-8772-6.
		Page 31	Changed item 3 from 78-8079-8823-9 to 78-8079-8855-1.
		Page 36	Added new Section 14, Roller Assembly.

Introduction

This Illustrated Parts Breakdown (IPB) contains the information necessary to locate and identify specific parts of the 9800 Overhead Projector.

Part Numbers

All components available on a replacement basis are listed with their 3M identification number. The parts identification list opposite each illustration provides the description adequate to identify components.

Locating and Identifying a Part

If physical appearance and general location of an item are known:

1. Use the Overview illustration to determine which section includes the item.
2. Refer to the section and locate the item on the exploded view illustration.

The part identification numbers provided in this manual are from the most current data available. Make sure part identification numbers for your component have not been amended by changes and updates made to your 9800 Overhead Projector.

Machine Identification Plate

The Machine Identification Plate is located on the bottom side of each projector and lists specific information that is needed when calling for technical assistance or ordering parts.

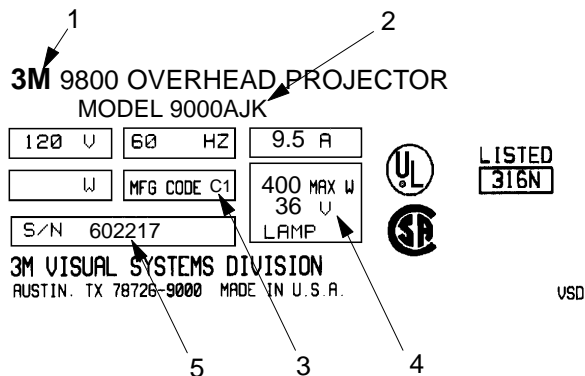


Figure 1-1. Machine Identification Plate

Ordering Parts

When ordering parts, include part identification number, description, quantity and the following information:

1. Product Name: The specific version number of the projector.
2. Model Number/Alpha Code: The series number of the projector followed by a three or four character alpha code identifier. The Alpha Code indicates the design level, specific product characteristics, power cord or distribution specific to a country.
3. MFG Code: The date the projector was manufactured. See example below:

MFG Code			
Letter		Digit	
M	1993	1	Jan – Mar
A	1994	2	Apr – Jun
C	1995	3	Jul – Sep
D	1996	4	Oct – Dec
E	1997	1	Jan – Mar

4. Lamp: The electrical rating of the lamp.
5. S/N: The serial number assigned to this projector.

Revision Bars

Revision bars placed in the margins indicate where additions or changes occurred. Refer to the Revision History to identify specific additions and changes.

For part orders contact:

Dealers:	Refer to Dealers Guide
3M Subsidiaries:	Contact Export Operations
Retail Customers:	
FAX:	1-800-650-9268
Telephone:	1-800-650-8429

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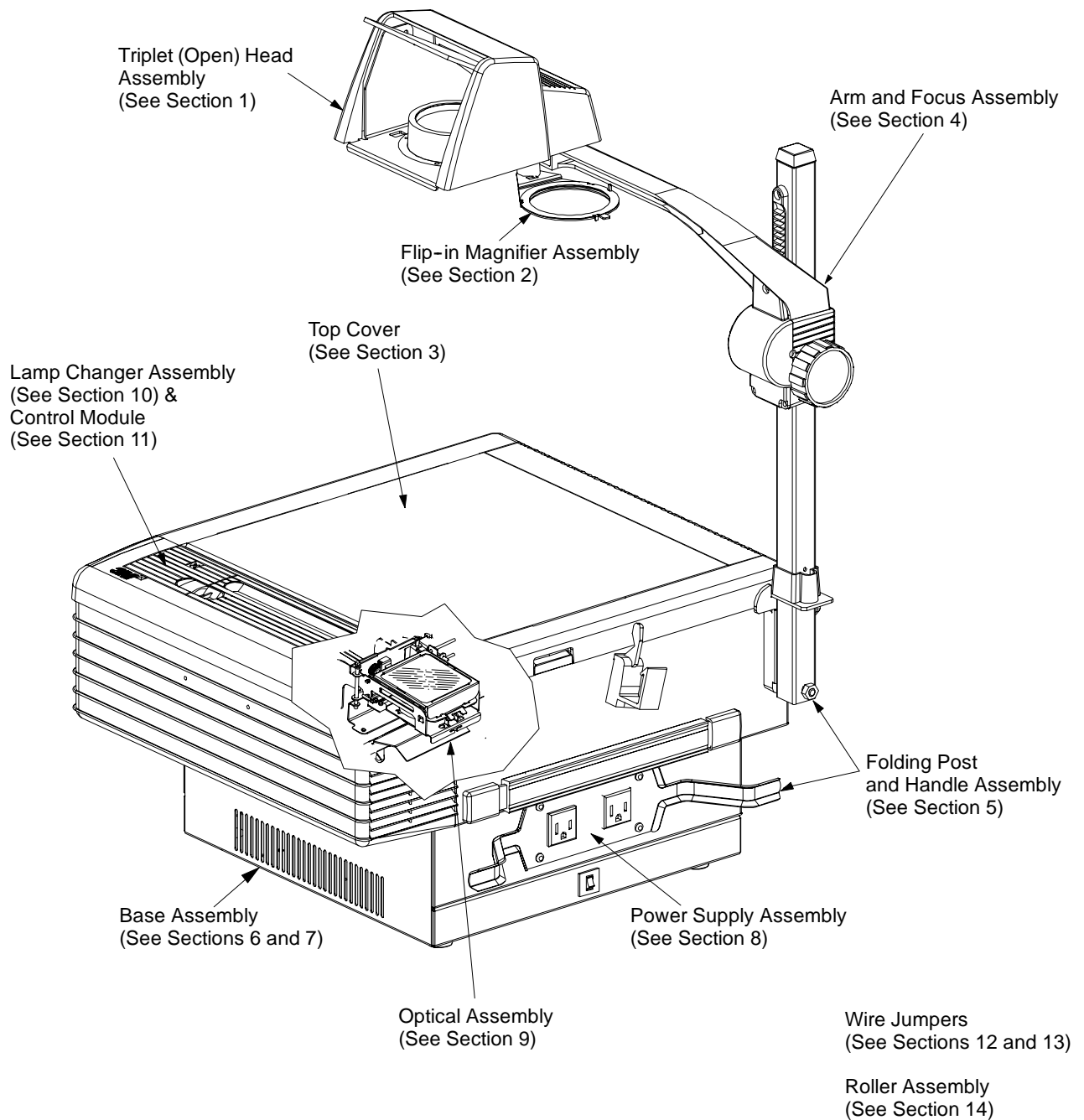
Section No.	Title	Page
0	Overview	3
1	Triplet (Open) Head Assemblies	4
2	Flip-in Magnifier Assembly	6
3	Top Cover	8
4	Arm and Focus Assembly	10
5	Folding Post and Handle Assembly	12
6	Version One Base Assembly-(Prior to S/N 623858)	14
7	Version Two Base Assembly-(S/N 623858 and above)	18
8	Power Supply Assembly	22
9	Optical Assembly	24
10	Lamp Changer Assembly	28
11	Control Module	30
12	Wire Jumpers-(Prior to S/N 623858)	32
13	Wire Jumpers-(S/N 623858 and above)	34
14	Roller Assembly	36
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IMPORTANT NOTICE

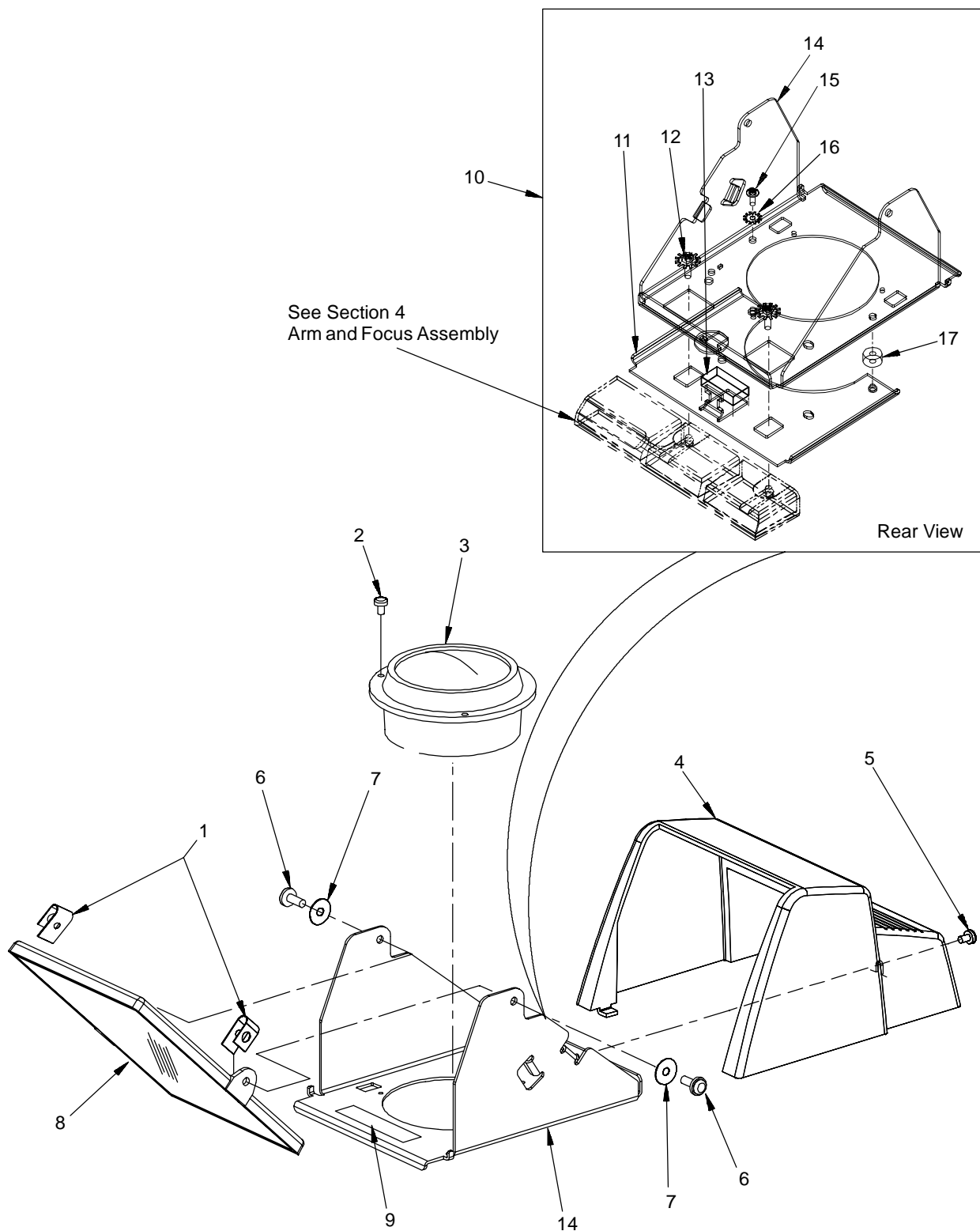
3M reserves the right to sell or furnish NEW OR RECONDITIONED PARTS.
New and reconditioned parts are covered by the same 3M new parts limited warranty.

Quick Reference Parts Index

Description	Part Number	Section		Item
		No.	No.	
ACTUATOR, Switch Button	78-8064-1515-0	.. 3	.....	3
BUTTON, Switch (Plum) (All models accept Korea)	78-8079-8974-0	.. 3	...	17A
BUTTON, Switch (Korea only) (AHKK)	78-8079-9165-4	.. 3	...	17B
CIRCUIT BREAKER	26-1009-9195-4	.. 6	.....	27
COVER, Switch, Interlock	Not Available	.. 8	.....	20
CRADLE, Post	78-8079-8890-8	.. 5	.....	4
DOOR, Lamp Changer, LED	78-8073-2956-6	.. 3	.....	4
FAN, Crossflow, 120V	78-8097-3642-0	.. 6	...	5B
FOOT, Mounting	26-1008-5211-5	.. 6	.....	2
GLASS, Stage, Hardened	78-8079-8975-7	.. 3	.....	7
HANDLE ASSEMBLY	Not Available	.. 5	.....	1
KNOB, Focus	78-8064-1601-8	.. 4	.....	16
KNOB, Lamp Changer (used in M9800 serial no. 615041 and earlier)	78-8079-8880-9	.. 11	...	5A
KNOB, Lamp Changer (used in M9800 serial no. 615042 and up)	78-8073-2962-4	.. 11	...	5B
LAMP, Projection, EVD, 400W, 36V	78-8079-8791-8	.. 9	.....	23
LATCH, Cover, Top	78-8079-8768-6	.. 3	.....	12
LENS, Condenser (Prior to S/N 623858, also order Spacer 78-8097-3649-5)	78-8099-8771-8	.. 9	.....	13
LENS, Flip-in Magnifier (Coated)	78-8097-3522-4	.. 2	.....	5
LENS, Fresnel Doublet, 133.8mm	78-8097-3637-0	.. 3	.....	13
LENS, Triplet, H.E.A.R. Coated, 340mm	78-8097-3693-3	.. 1	.....	3
MIRROR ASSEMBLY, Triplet, Grey, 4mm Mirror	78-8079-9227-2	.. 1	...	9B
MIRROR, Hot	Not Available	.. 9	.....	10
PCB ASSEMBLY, Lamp Changer (used in M9800 serial no. 615041 and earlier)	78-8079-8889-0	.. 11	..	10A
PCB ASSEMBLY, Lamp Changer (used in M9800 serial no. 615042 and up)	78-8073-3105-9	.. 11	..	10B
PCB, Overvoltage, 120V	78-8097-3536-4	.. 6/7	..	14B
POST, Lock	78-8079-8852-8	.. 5	.....	8
POWER CORD, U.S.	78-8097-3587-7	.. 8	.....	1F
REFLECTOR (60mm)	78-8079-8899-9	.. 9	.....	24
SOCKET, Lamp, Dual	78-8054-1770-2	.. 9	.....	19
SPACER, Condenser	78-8099-8772-6	.. 9	.....	35
SPACER, Reflector	78-8097-3649-5	.. 9	.....	27
SWITCH, Hi/Lo	78-8073-7212-9	.. 6/7	...	17
SWITCH, Interlock	78-8073-3039-0	.. 8	.....	3
SWITCH, Lamp Changer/Hi/Lo, Dimmer	78-8079-8855-1	.. 11	.....	8
SWITCH, Micro	78-8079-8855-1	.. 11	.....	3
SWITCH, On/Off	Not Available	.. 10	.....	6
THERMOSTAT, Safety	78-8079-9010-2	.. 11	...	15
TRANSFORMER, 120V	78-8097-3534-9	.. 6/7	..	20B

**Section 0
OVERVIEW**

Section 1
TRIPLET (OPEN) HEAD ASSEMBLY

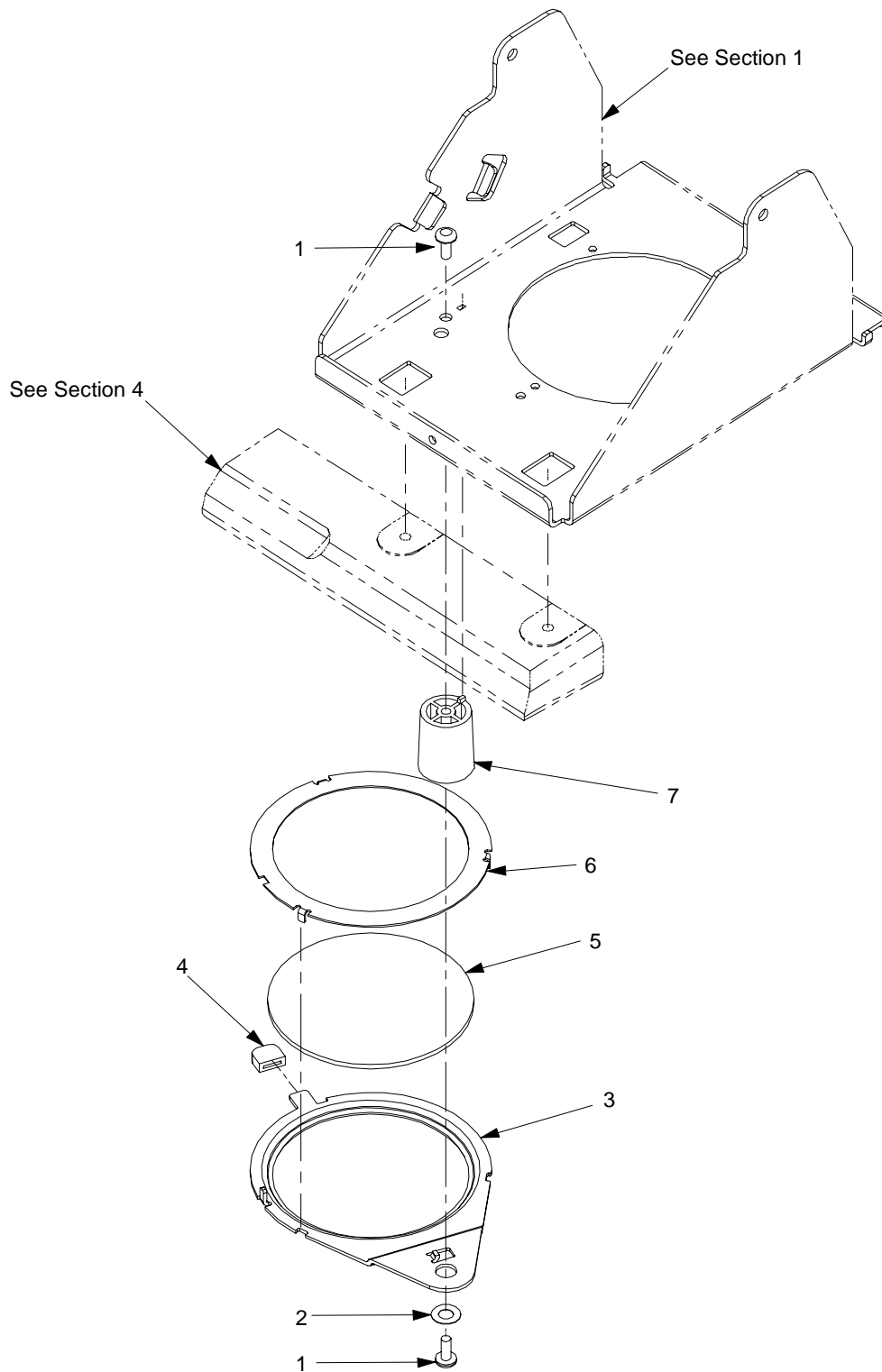


Section 1
TRIplet (OPEN) HEAD ASSEMBLY

Item			
No.	Part Number	Description	Qty
0	78-8097-3644-6	HEAD ASSEMBLY, Triplet, 9800, (includes items 1-8 and 14) (also includes Section 2, Flip-in Magnifier Assembly)	1
1	(See Note 1)	NUT, U-Type, 8-32	1
2	(See Note 1)	SCREW, Taptite, M3 x 6mm, Black Zinc	3
3	78-8097-3693-3	LENS, Triplet, H.E.A.R. Coated, 345mm	1
4	78-8079-9017-7	COVER, Head	1
5	(See Note 1)	SCREW, Taptite, M3.5 x 8	2
6	(See Note 1)	SCREW, Mach. 8-32 x 7/16	1
7	(See Note 1)	WASHER, Plain, Nylon	1
8	78-8079-9227-2	MIRROR ASSEMBLY, Triplet, Grey, 4mm Mirror	1
9	Not Available	LABEL, Caution (Japan only) (ABKJ)	1
10	Not Available	SPLIT HEAD ASSEMBLY KIT (includes items 11-17)	1
11	78-8097-3658-6	BRACKET, Lens, Head mount	1
12	(See Note 1)	SCREW, Taptite, M4 x 10, Sems	2
13	78-8097-3666-9	PAD, Dampener, Head	1
14	78-8097-3657-8	BRACKET, Lens, Triplet	1
15	(See Note 1)	SCREW, Taptite, M3.5 x 12	2
16	(See Note 1)	WASHER, Lock, Ext. Tooth	2
17	78-8097-3667-7	SPACER, Head, OUS	1

Note 1. Order the 9000 Series Hardware Repair Kit (78-8054-1818-9). This kit contains a complete set of hardware for the 9800 O.H.P.

Section 2
FLIP-IN MAGNIFIER ASSEMBLY



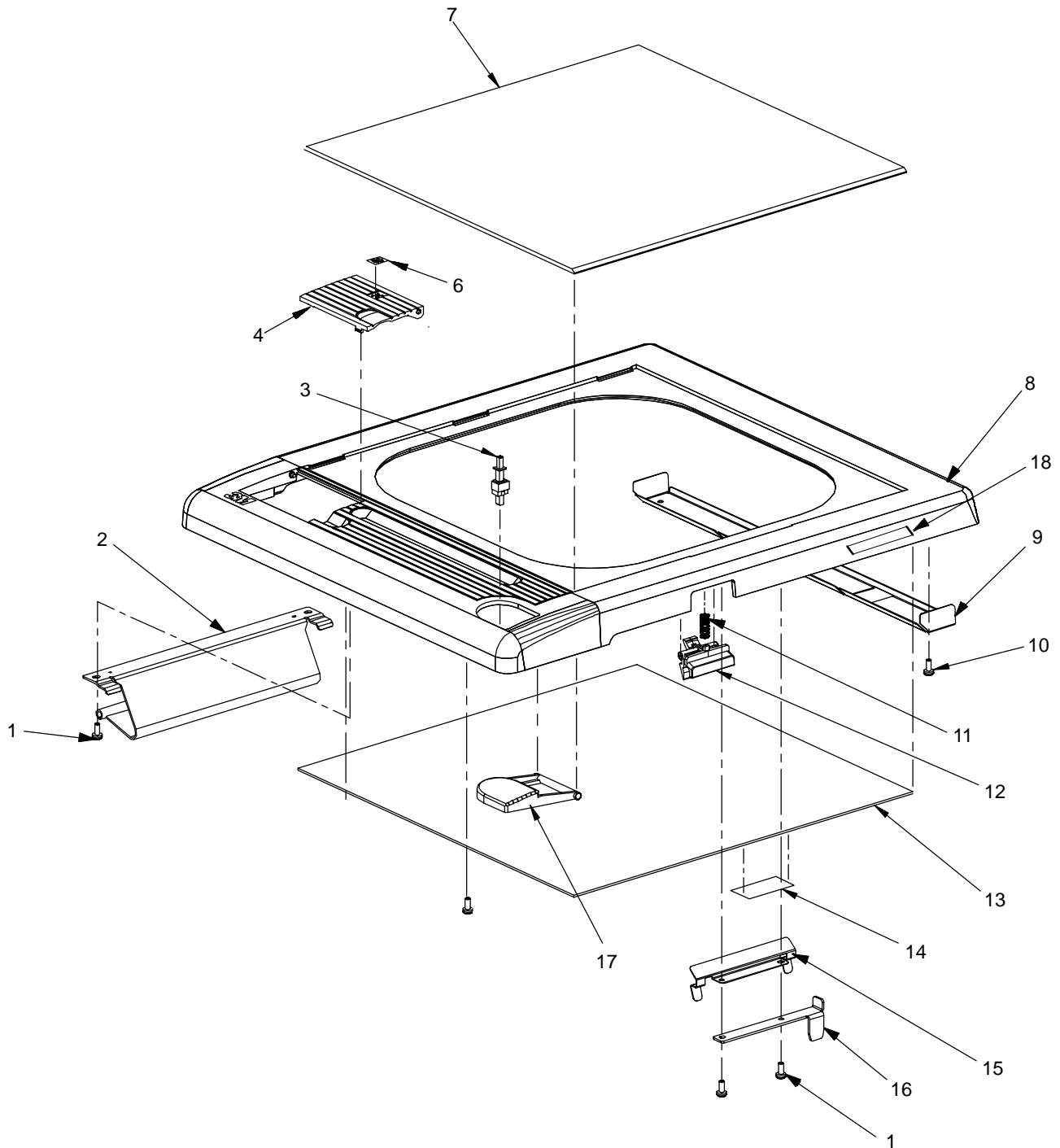
Section 2
FLIP-IN MAGNIFIER ASSEMBLY

Item			
No.	Part Number	Description	Qty
0	..... (See Note 2)	FLIP-IN MAGNIFIER ASSEMBLY	1
1	..... (See Note 1)	SCREW, Plastite, 6-19 x 3/8	2
2	..... (See Note 1)	WASHER, Spring	1
3	..... 78-8095-8269-1	BRACKET, Magnifier Lens,	1
4	..... 78-8097-3673-5	KNOB, Magnifier	1
5	..... 78-8097-3522-4	LENS, Flip-in Magnifier (Coated)	1
6	..... 78-8095-8270-9	RETAINER, Lens Magnifier	1
7	..... 78-8095-8271-7	POST, Magnifier Pivot	1

Note 1. Order the 9000 Series Hardware Repair Kit (78-8054-1818-9). This kit contains a complete set of hardware for the 9800 O.H.P.

Note 2. This item is available as an accessory part only. For U.S. (domestic) accessory information, call the 3M VSD Order Department in Austin at 1-800-328-1063. For European accessory information, fax the 3M Distribution Services International BV, Breda, Netherlands at 011-31-76-272-022. For international accessory information, fax the International Order Entry Department in St. Paul at (612) 736-5972.

Section 3
TOP COVER



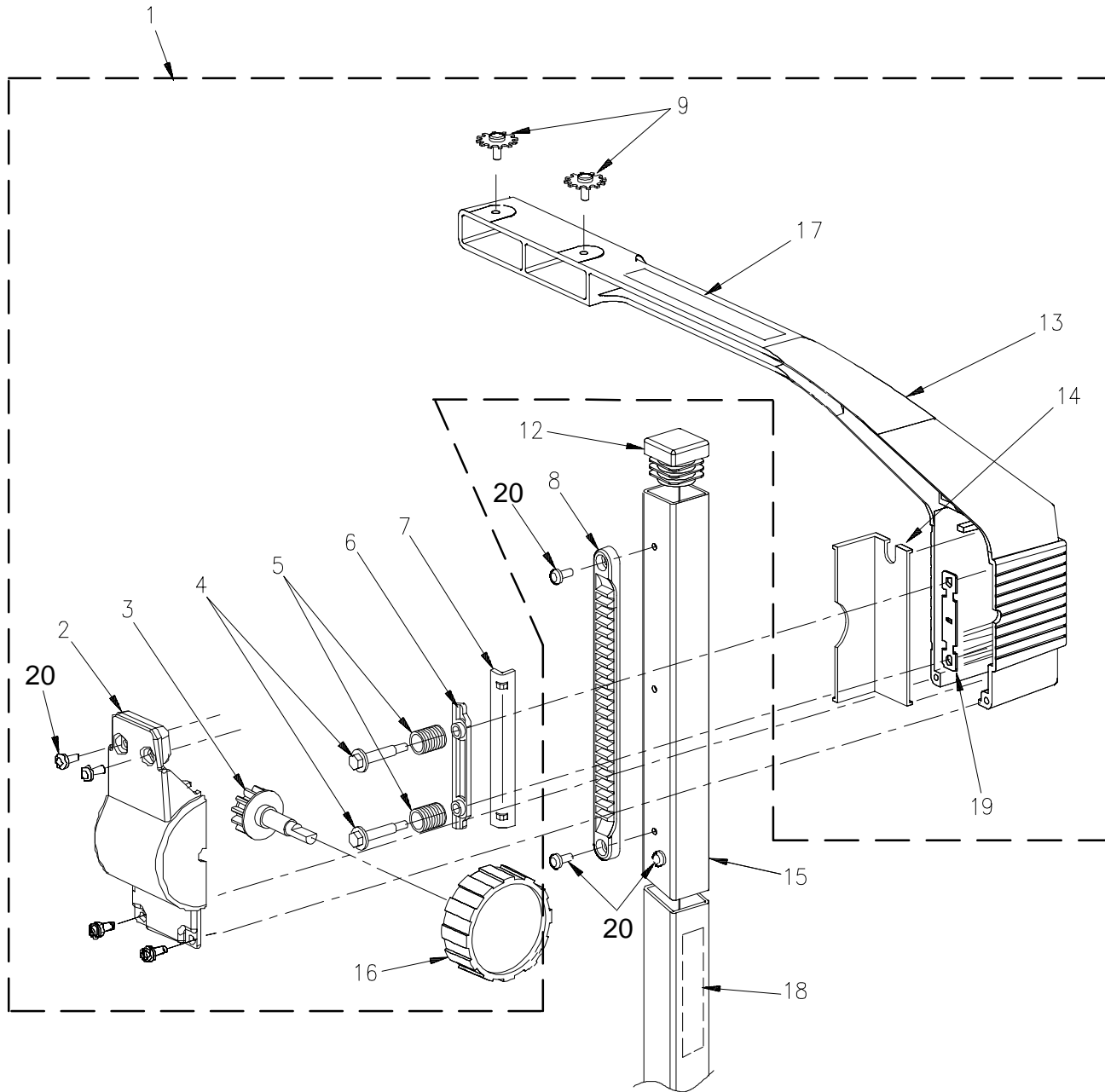
Section 3 TOP COVER

Item No.	Part Number	Description	Qty
1	(See Note 1)	SCREW, Plastite, 6-19 x 5/16	2
2	78-8120-2943-3	BRACKET, Hinge (Dual)	1
3	78-8064-1515-0	ACTUATOR, Switch Button	1
4	78-8073-2956-6	DOOR, Lamp Changer, LED	1
5	Not Used		
6	78-8079-9022-7	LABEL, Lamp Indicator	1
7	78-8079-8975-7	GLASS, Stage, Hardened	1
8	78-8054-1842-9	COVER, Top	1
9	78-8097-3681-8	BRACKET, Airflow, Top Cover	1
10	(See Note 1)	SCREW, Plastite, 6-19 x 3/8	4
11	78-8005-0481-9	SPRING	1
12	78-8079-8768-6	LATCH, Cover, Top	1
13	78-8097-3637-0	LENS, Fresnel Doublet, 133.8mm	1
14	78-8079-8939-3	LABEL, Caution, Lens	1
15	78-8079-8830-4	RETAINER, Fresnel	1
16	78-8095-8283-2	ACTUATOR, Interlock	1
17A	78-8079-8974-0	BUTTON, Switch (Plum) (All versions except Korea)	1
17B	78-8079-9165-4	BUTTON, Switch (Korea only) (AHKK)	1
18	Not Available	LABEL, Caution (Japan only) (ABKJ)	1

Note 1. Order the 9000 Series Hardware Repair Kit (78-8054-1818-9). This kit contains a complete set of hardware for the 9800 O.H.P.

Section 4

ARM AND FOCUS ASSEMBLY



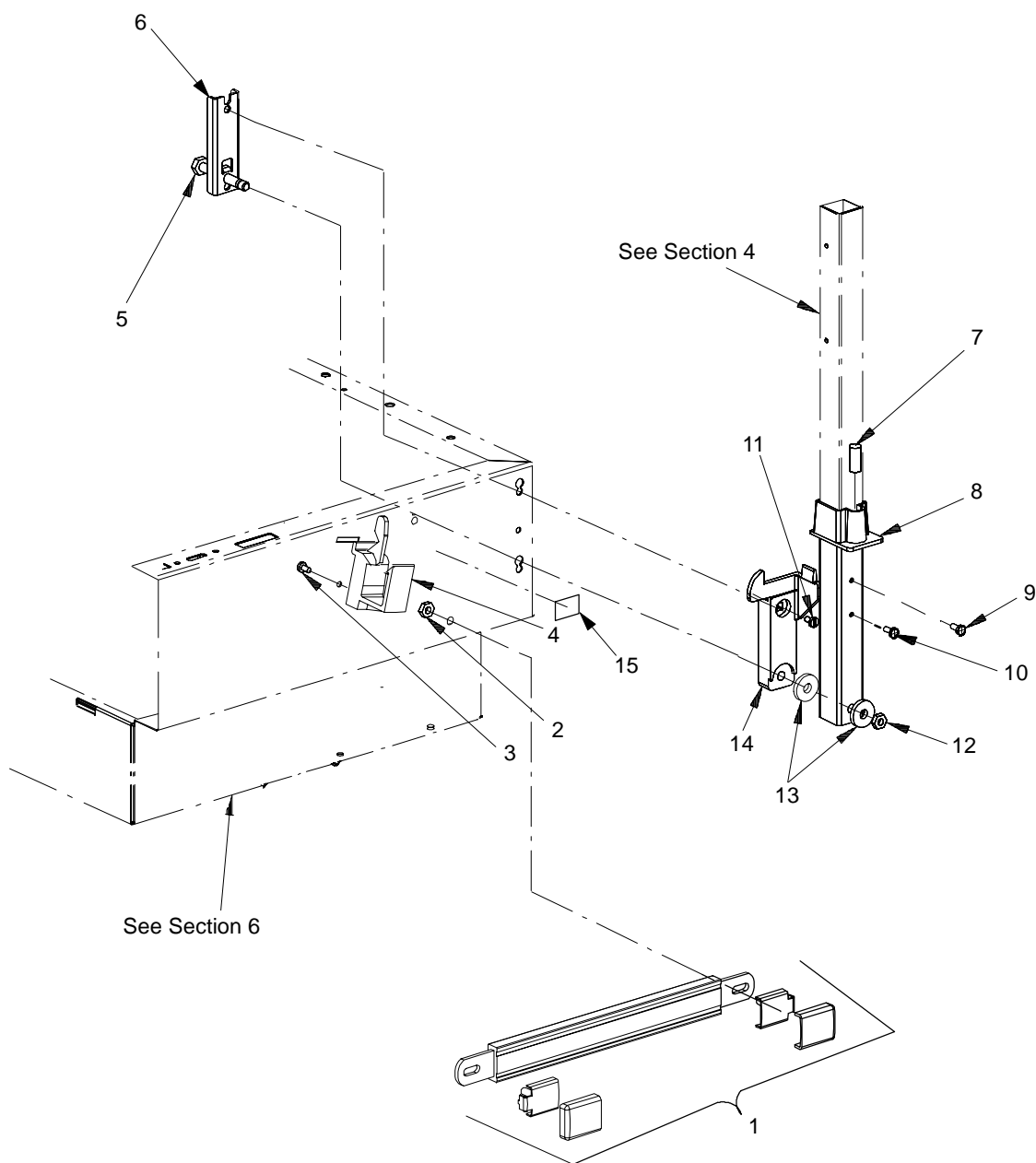
Section 4
ARM AND FOCUS ASSEMBLY

Item			
No.	Part Number	Description	Qty
1A	DY-0210-2704-9	FOCUS ARM KIT (Europe only)	1 ■
1B	78-8054-1820-5	FOCUS ARM KIT	1 ■
2	78-8120-2930-0	CAP, Focus Arm, Plastic	1
3	78-8079-8745-4	GEAR, Focus	1
4	(See Note 1)	SCREW, Shoulder	2
5	26-1009-4515-8	SPRING, Lee	2
6	Not Available	BAR, Pressure	1
7	78-8079-8743-9	CLAMP, Friction	1
8	78-8079-8744-7	RACK, Focus	1
9	(See Note 1)	SCREW, Sems, M4 x 0.7 x 16	1
10 - 11	Not Used		
12	26-1009-3653-8	CAP, Post (22 mm square)	1
13	78-8120-2942-5	ARM, Focus, Plastic	1
14	78-8120-2925-0	PAD, Wear, Plastic	1
15	78-8079-9088-8	POST, Folding, Long	1
16	78-8064-1601-8	KNOB, Focus	1
17	Not Available	LABEL, Caution (Japan only) (ABKJ)	1
18	78-8054-1713-2	LABEL, Post (Japan only) (ABKJ)	1
19	78-8120-2920-1	PLATE, Standoff	1
20	(See Note 1)	SCREW, Taptite, M3.5 x 8	7 ■

Note 1. Order the 9000 Series Hardware Repair Kit (78-8054-1818-9). This kit contains a complete set of hardware for the 9800 O.H.P.

Section 5

FOLDING POST and HANDLE ASSEMBLY

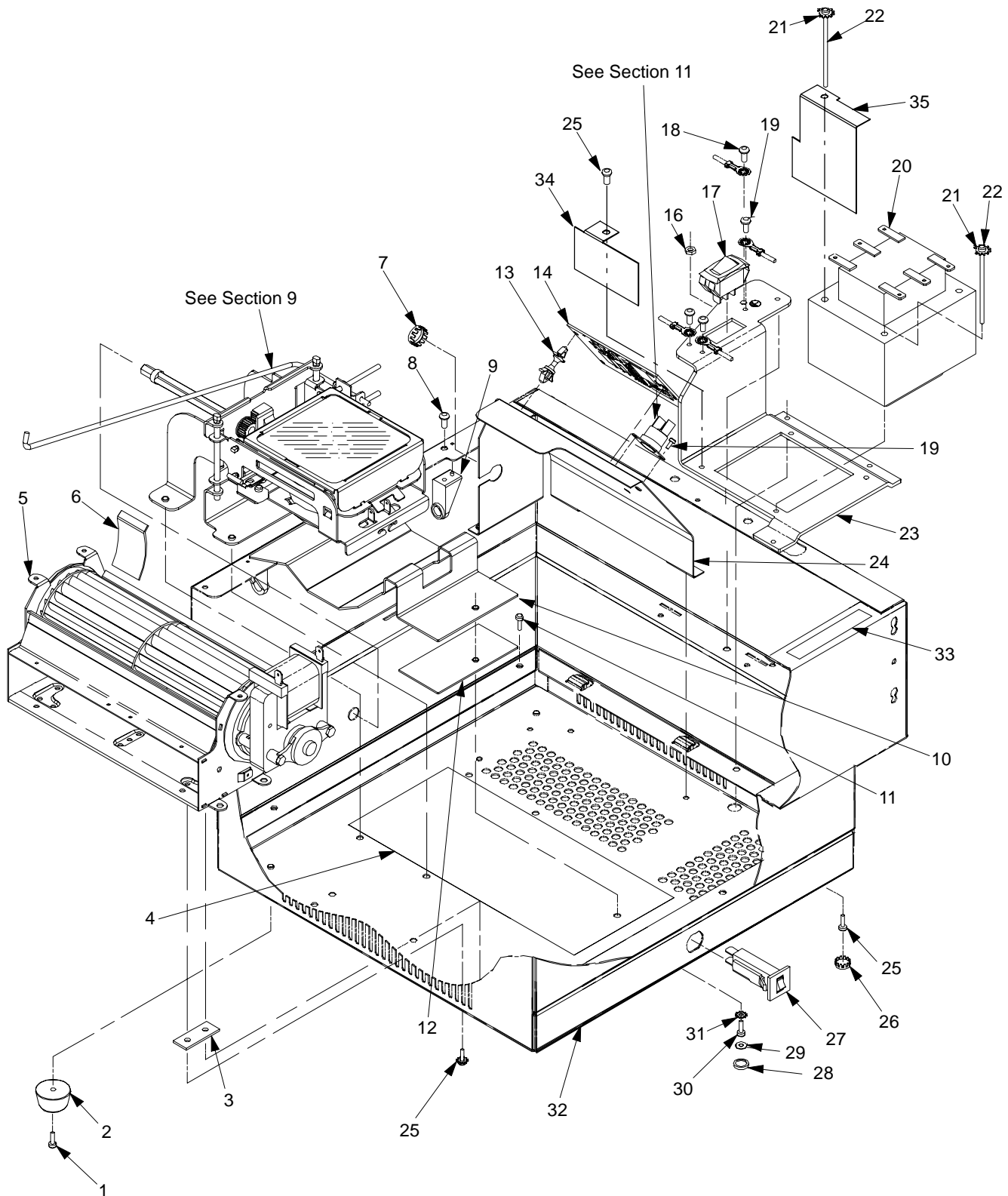


Section 5
FOLDING POST and HANDLE ASSEMBLY

Item			
No.	Part Number	Description	Qty
1	Not Available	HANDLE ASSEMBLY	1
2	(See Note 1)	NUT, Keps, 10-32, External Tooth	2
3	(See Note 1)	SCREW, Plastite, 6-19 x 5/16	2
4	78-8079-8890-8	CRADLE, Post	1
5	78-8079-8850-2	BOLT, Pivot	1
6	78-8079-8846-0	BRACKET, Pivot	1
7	26-1009-9847-0	SPRING, Compression	1
8	78-8079-8852-8	POST, Lock	1
9	(See Note 1)	SCREW, Latch	1
10	(See Note 1)	SCREW, Taptite, M3.5 x 8	1
11	(See Note 1)	SCREW, Taptite, 10-32 x 5/8	1
12	(See Note 1)	NUT, Hex, 1/4-20, Elastic Stop Lock	1
13	(See Note 1)	WASHER	2
14	78-8079-8875-9	PIVOT, Post-Mount	1
15	Not Available	LABEL, NOM (Long)	1

Note 1. Order the 9000 Series Hardware Repair Kit (78-8054-1818-9). This kit contains a complete set of hardware for the 9800 O.H.P.

Section 6
VERSION ONE BASE ASSEMBLY
(Prior to S/N 623858)



Section 6
VERSION ONE BASE ASSEMBLY
(Prior to S/N 623858)

Item			
No.	Part Number	Description	Qty
1	..... (See Note 1)	SCREW, Foot	4
2	..... 26-1008-5211-5	FOOT, Mounting	4
3	..... 78-8097-3567-9	ISOLATOR, Vibration	5
4	..... Not Available	TAPE, Heat (Body)	1
5A	..... 78-8097-3642-0	FAN, Crossflow, 120V (includes items 3 and 6)	1
5B	..... 78-8097-3643-8	FAN, Crossflow, 230V (includes items 3 and 6)	1
6	..... Not Available	TAPE, Insulator	1
7	..... 78-8003-8728-0	BUSHING	1
8	..... (See Note 1)	SCREW, Plastite, 6-19 x 5/16	2
9	..... 78-8079-8817-1	PIVOT, Cover	1
10	..... 78-8097-3582-8	SHIELD, Heat	1
11	..... (See Note 1)	SCREW, Type AB, 8-18 x 1/4	2
12	..... Not Available	INSULATOR, Thermal	1
13	..... 26-1009-9680-5	STAND OFF	4
14A	..... 78-8097-3569-5	PCB, Overvoltage, 100V	1
14B	..... 78-8097-3536-4	PCB, Overvoltage, 120V	1
14C	..... 78-8097-3690-9	PCB, Overvoltage, 127V (Mexico only) (AAKD)	1
14D	..... 78-8097-3537-2	PCB, Overvoltage, 220V	1
14E	..... 78-8097-3571-1	PCB, Overvoltage, 230V	1
14F	..... 78-8097-3577-8	PCB, Overvoltage, 240V	1
15	..... Not Used		
16	..... (See Note 1)	NUT, Keps, 6-32	1
17	..... 78-8073-7212-9	SWITCH, Hi/Lo	1
18	..... (See Note 1)	SCREW, Machine, 6-32 x 3/8	1
19	..... (See Note 1)	SCREW, Taptite, M3.5 x 6	3
20A	..... 78-8097-3566-1	TRANSFORMER, EVD, 100V	1
20B	..... 78-8097-3534-9	TRANSFORMER, 120V	1
20C	..... 78-8097-3568-7	TRANSFORMER, EVD, 220V	1
20D	..... 78-8097-3535-6	TRANSFORMER, 230V	1
20E	..... 78-8097-3570-3	TRANSFORMER, EVD, 240V	1
21	..... (See Note 1)	WASHER, Lock, #10, External Tooth	2
22	..... (See Note 1)	SCREW, Taptite, M4 x 60	2
23	..... 78-8097-3511-7	BRACKET, Transformer	1
24	..... 78-8097-3513-3	BAFFLE, Intake	1
25	..... (See Note 1)	SCREW, Taptite, Sems, M4 x 8	3
26	..... Not Available	PLUG, Hole	3
27	..... 26-1009-9195-4	CIRCUIT BREAKER	1
28	..... Not Available	CAP, Plug, Black	1
29	..... (See Note 1)	WASHER, Metal	1

Note 1. Order the 9000 Series Hardware Repair Kit (78-8054-1818-9). This kit contains a complete set of hardware for the 9800 O.H.P.

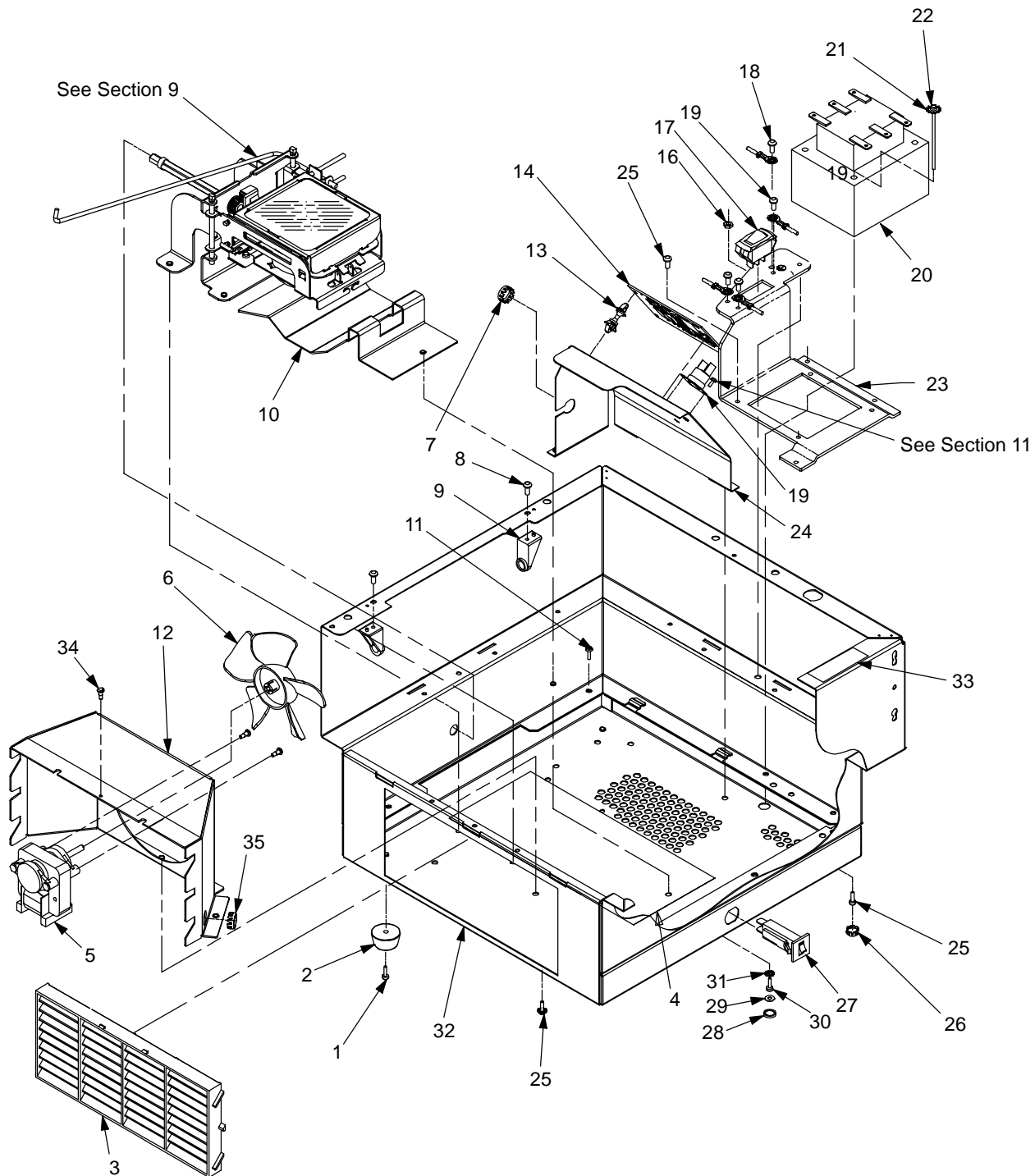
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Section 6
VERSION ONE BASE ASSEMBLY (Continued)
(Prior to S/N 623858)

Item			
No.	Part Number	Description	Qty
30	(See Note 1)	SCREW, Taptite, 8-32 x 3/8	1
31	(See Note 1)	WASHER, Lock, #6, External Tooth	1
32	Not Available	BASE, 9800	1
33	Not Available	LABEL, Caution (Japan only) (ABKJ)	1
34	78-8097-3685-9	BRACKET, Transformer, Deflector (U.S.)	1
35A . . .	78-8097-3683-4	BRACKET, Transformer, Deflector, (International)	1
35B . . .	78-8097-3684-2	BRACKET, Transformer, Deflector (Japan only) (ABKJ)	1
36	78-8097-3696-6	LUBRICATION KIT, Lampchanger (for machines prior to January 1996)	1

Note 1. Order the 9000 Series Hardware Repair Kit (78-8054-1818-9). This kit contains a complete set of hardware for the 9800 O.H.P.

Section 7
VERSION TWO BASE ASSEMBLY
 (S/N 623858 and above)



Section 7
VERSION TWO BASE ASSEMBLY
(S/N 623858 and above)

Item			
No.	Part Number	Description	Qty
1	(See Note 1)	SCREW, Foot	4
2	26-1008-5211-5	FOOT, Mounting	4
3	78-8099-8757-7	PANEL, Louver	1
4	Not Available	TAPE, Heat (Reference only)	1
5A	78-8099-8769-2	MOTOR, Fan, 120V	1
5B	78-8099-8770-0	MOTOR, Fan, 230V	1
6	78-8099-8767-6	BLADE, Fan, 4 CW, 5 Blade	1
7	78-8003-8728-0	BUSHING	1
8	(See Note 1)	SCREW, Plastite, 6-19 x 5/16	2
9	78-8079-8817-1	PIVOT, Cover	1
10	78-8097-3582-8	SHIELD, Heat	1
11	(See Note 1)	SCREW, Taptite, M4 x 6, Bronze	2
12	78-8099-8758-5	DUCT, Fan, Mount	1
13	26-1009-9680-5	STAND OFF	4
14A	78-8097-3569-5	PCB, Overvoltage, 100V	1
14B	78-8097-3536-4	PCB, Overvoltage, 120V	1
14C	78-8097-3690-9	PCB, Overvoltage, 127V (Mexico only) (AAKD)	1
14D	78-8097-3537-2	PCB, Overvoltage, 220V	1
14E	78-8097-3571-1	PCB, Overvoltage, 230V	1
14F	78-8097-3577-8	PCB, Overvoltage, 240V	1
15	Not Used		
16	(See Note 1)	NUT, Keps, 6-32	1
17	78-8073-7212-9	SWITCH, Hi/Lo	1
18	(See Note 1)	SCREW, Machine, 6-32 x 3/8	1
19	(See Note 1)	SCREW, Taptite, M3.5 x 6	3
20A	78-8097-3566-1	TRANSFORMER, EVD, 100V	1
20B	78-8097-3534-9	TRANSFORMER, 120V	1
20C	78-8097-3568-7	TRANSFORMER, EVD, 220V	1
20D	78-8097-3535-6	TRANSFORMER, 230V	1
20E	78-8097-3570-3	TRANSFORMER, EVD, 240V	1
21	(See Note 1)	WASHER, Lock, #10, External Tooth	2
22	(See Note 1)	SCREW, Taptite, M4 x 60	2
23	78-8097-3511-7	BRACKET, Transformer	1
24	78-8097-3513-3	BAFFLE, Intake	1
25	(See Note 1)	SCREW, Taptite, Sems, M4 x 8	3
26	26-1009-9777-9	PLUG, Hole	3
27	26-1009-9195-4	CIRCUIT BREAKER	1
28	Not Available	CAP, Plug, Black	1

Note 1. Order the 9000 Series Hardware Repair Kit (78-8054-1818-9). This kit contains a complete set of hardware for the 9800 O.H.P.

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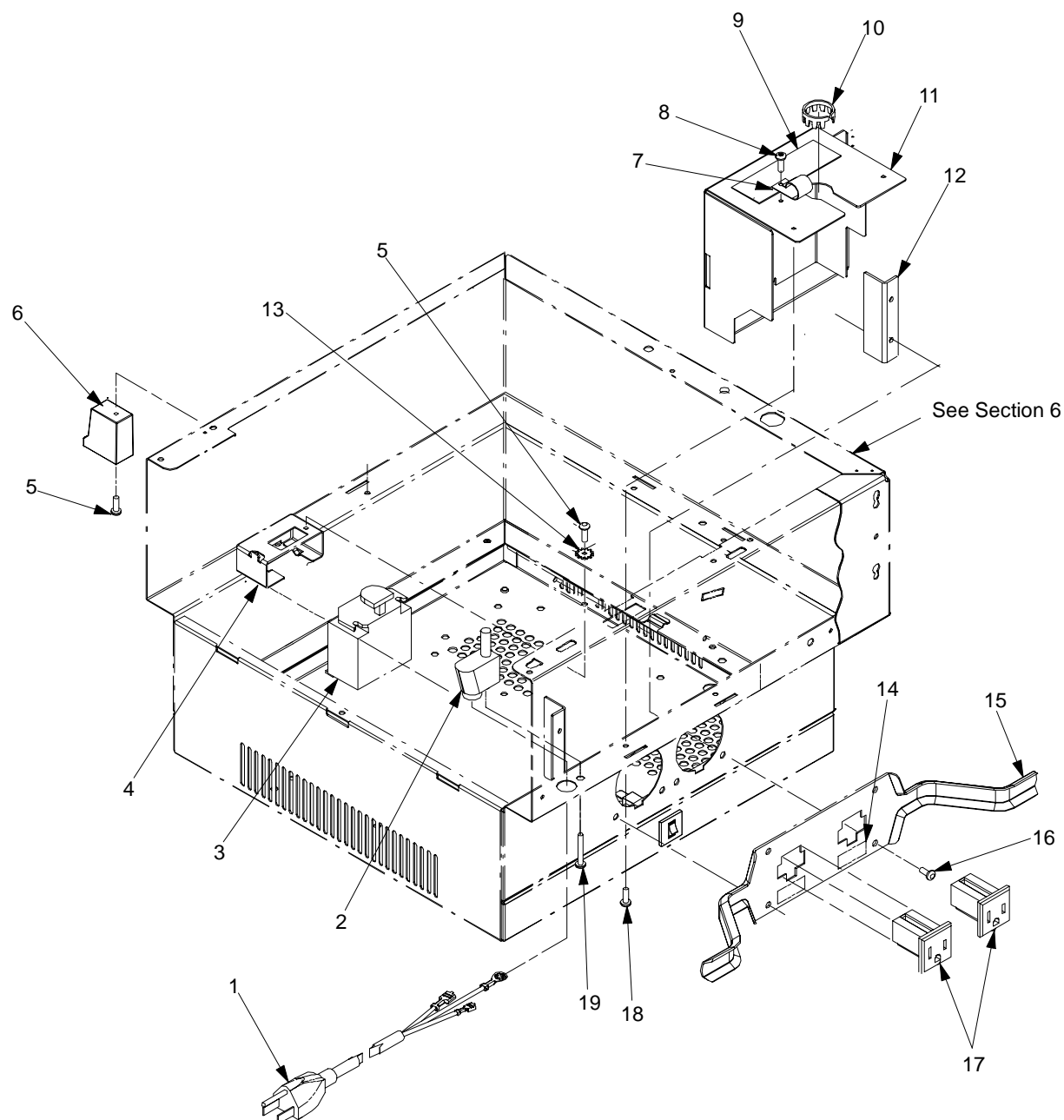
Section 7
VERSION TWO BASE ASSEMBLY (Continued)
(S/N 623858 and above)

Item			
No.	Part Number	Description	Qty
29	.... (See Note 1)	WASHER, Metal	1
30	.... (See Note 1)	SCREW, Taptite, 8-32 x 3/8	1
31	.... (See Note 1)	WASHER, Lock, #6, External Tooth	1
32	.... 78-8099-8761-9	BASE, 9800, Version 2.0	1
33	.... Not Available	LABEL, Caution (Japan only) (ABKJ)	1
34	.... (See Note 1)	SCREW, Taptite, 4/40 x 3	1
35	.... 78-8003-8728-0	BUSHING, 0.5 Mounting Hole Diameter	1

Note 1. Order the 9000 Series Hardware Repair Kit (78-8054-1818-9). This kit contains a complete set of hardware for the 9800 O.H.P.

Section 8

POWER SUPPLY ASSEMBLY

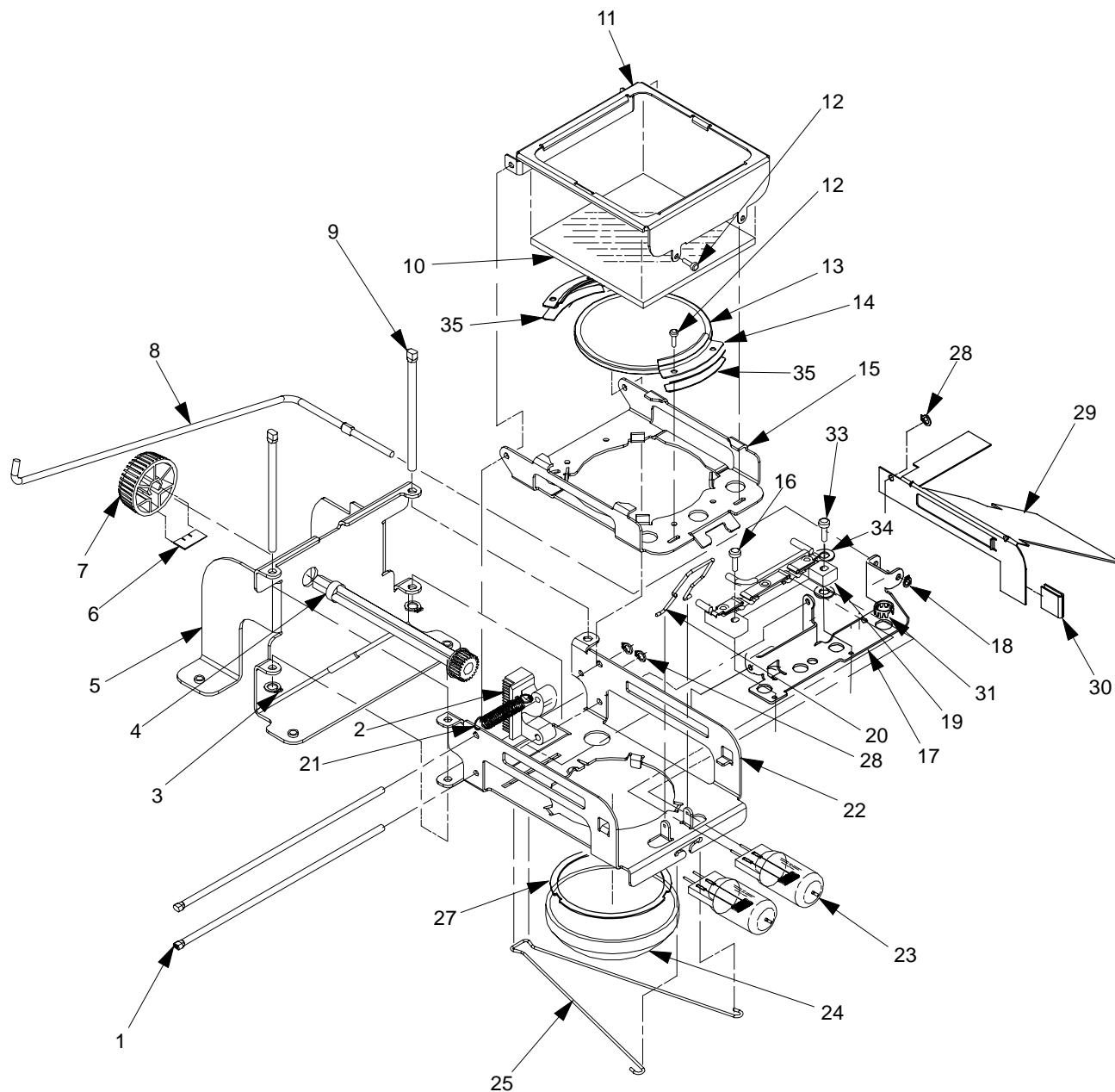


Section 8 POWER SUPPLY ASSEMBLY

Item No.	Part Number	Description	Qty
1A	78-8097-3590-1	POWER CORD, Australia	1
1B	78-8097-3588-5	POWER CORD, Europe	1
1C	78-8097-3593-5	POWER CORD, Italy	1
1D	78-8097-3594-3	POWER CORD, Japan	1
1E	78-8097-3589-3	POWER CORD, United Kingdom	1
1F	78-8097-3587-7	POWER CORD, U.S.	1
1G	78-8097-3592-7	POWER CORD, South Africa	1
1H	78-8097-3591-9	POWER CORD, Swiss	1
2	DY-1160-2020-6	CLAMP, Cable	1
3	78-8073-3039-0	SWITCH, Interlock	1
4	78-8079-8795-9	BRACKET, Interlock (Early versions only)	1
5	(See Note 1)	SCREW, Plastite, 6-19 x 5/16	4
6	78-8079-9066-4	FOOT, Support, Side	2
7	Not Available	CLAMP, Wire, Micro, Plastic	1
8	(See Note 1)	SCREW, Taptite, M3.5 x 6	1
9A	78-8097-3622-2	LABEL, Caution (U.S.)	1
9B	78-8097-3596-8	LABEL, Caution (Outside U.S.)	1
10	Not Available	BUSHING, Split	1
11	78-8054-1769-4	SHIELD, AC Outlet	1
12	78-8097-3586-9	NUT PLATE	1
13	(See Note 1)	WASHER, Lock, #6, External Tooth	2
14A	78-8097-3631-3	LABEL, Socket 100V	1
14B	78-8097-3629-7	LABEL, Socket 120V	1
14C	78-8097-3635-4	LABEL, Socket 127V	1
14D	78-8097-3630-5	LABEL, Socket 220V, 50 HZ	1
14E	Not Available	LABEL, Socket 220V, 60 HZ	1
14F	Not Available	LABEL, Socket 230V	1
14G	78-8097-3633-9	LABEL, Socket 240V	1
15A	78-8097-3648-7	CORD WRAP, (Japan only) (ABKJ)	1
15B	78-8097-3538-0	CORD WRAP, (U.S.)	1
15C	78-8097-3541-4	CORD WRAP, (Outside U.S.)	1
16A	(See Note 1)	SCREW, Plastite, 8-16 x 3/8	4
16B	(See Note 1)	SCREW, Taptite, M4 x 6	6
17A	26-1009-9110-3	OUTLET, Socket (Australia)	2
17B	26-1009-9105-3	OUTLET, Socket AC (Europe)	2
17C	26-1009-9548-4	OUTLET, Socket (Italy)	2
17D	26-1011-2519-8	OUTLET, Socket (Japan, Philippines)	2
17E	26-1009-9107-9	OUTLET, Socket (United Kingdom)	2
17G	26-1009-9118-6	OUTLET, Socket (U.S., Taiwan, Mexico)	2
18	(See Note 1)	SCREW, Taptite, Torx, M3.5 x 6	2
19A	(See Note 1)	SCREW, Plastite, Torx, 6-19 x 1 (Outside U.S.)	1
19B	(See Note 1)	SCREW, Plastite, 6-19 x 1	1

Note 1. Order the 9000 Series Hardware Repair Kit (78-8054-1818-9). This kit contains a complete set of hardware for the 9800 O.H.P.

Section 9
OPTICAL ASSEMBLY



Section 9
OPTICAL ASSEMBLY

Item			
No.	Part Number	Description	Qty
0	78-8097-3645-3	OPTICAL ASSEMBLY (without items 7 and 23)	1
1	78-8097-3670-1	ROD, Lamp Changer, Slide	2
2	78-8097-3579-4	GEAR, Track	1
3	26-1009-9932-0	RING, Grip	2
4	78-8097-3580-2	GEAR, Color Tuning	1
5	78-8097-3578-6	BRACKET, Light Source	1
6	78-8065-8187-8	RETAINER, Knob	1
7	78-8097-3565-3	KNOB, Color Tuning	1
8	78-8097-3517-4	ROD, Secondary Lamp Changer Linkage	1
9	78-8097-3581-0	ROD, Color Tuning	2
10	Not Available	MIRROR, Hot	1
11	78-8097-3527-3	BRACKET, Hot Mirror	1
12	(See Note 1)	SCREW, Taptite, M3 x 4	6
13	78-8099-8771-8	LENS, Condenser (For machines prior to serial number 623858 order item 35 also)	1
14	78-8097-3640-4	HOLDER, Condenser	2
15	78-8097-3516-6	BRACKET, Condenser	1
16	(See Note 1)	SCREW, Taptite, M3 x 10	2
17	78-8097-3655-2	BRACKET, Slide	1
18	26-1005-7814-0	RING, Grip	3
19	78-8054-1770-2	SOCKET, Lamp, Dual	1
20	78-8079-9053-2	SPRING, Catch	1
21	12-7992-2440-2	SPRING, Extension	1
22	78-8097-3526-5	BRACKET, Reflector	1
23	78-8079-8791-8	LAMP, Projection, EVD, 400W, 36V	2
24	78-8079-8899-9	REFLECTOR (60mm)	1
25	78-8079-8896-5	SPRING, Retaining, Reflector, EVD	1
26	78-8097-3696-6	LUBRICATION KIT, Lamp Changer (Not Shown) (See Note 2)	1
27	78-8097-3649-5	SPACER, Reflector	1
28	26-1005-7814-0	RING, Retaining	4
29	78-8097-3682-6	BRACKET, Intake, 9800	1
30	Not Available	CLIP, U-Type, Tinnerman	1
31	26-1000-0785-0	BUSHING, .375 Mounting Hole Diameter	1

Note 1. Order the 9000 Series Hardware Repair Kit (78-8054-1818-9). This kit contains a complete set of hardware for the 9800 O.H.P.

Note 2. Lubrication kit is necessary for all machines prior to January 1996. All machines built in January 1996 or later with Mfg. Code D1 have been lubricated at the factory.

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Section 9
OPTICAL ASSEMBLY (Continued)

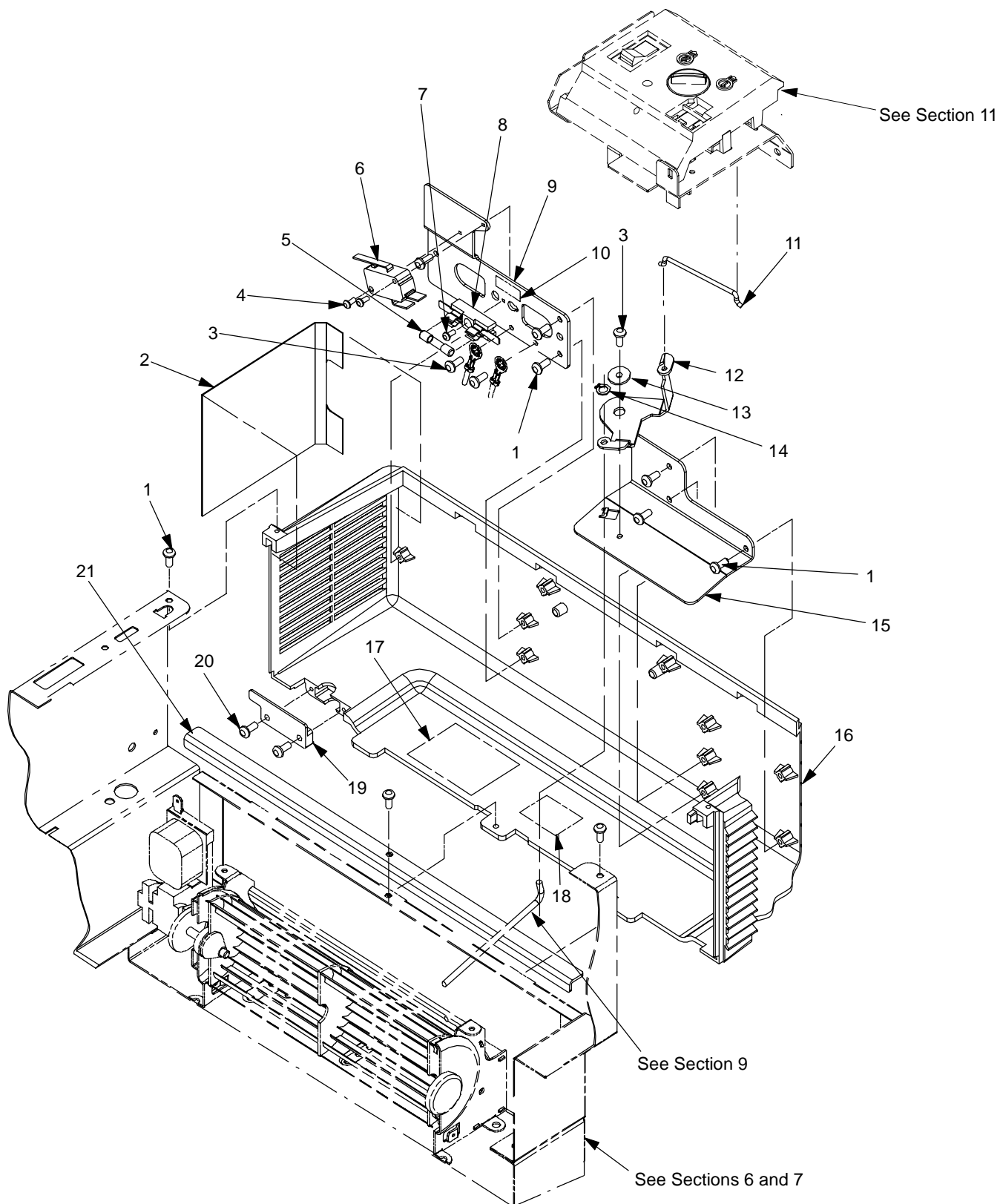
Item	Part Number	Description	Qty
32A ...	78-8097-3687-5	AIRFLOW ENHANCEMENT KIT (For S/N 608157 and earlier with short rods (1cm) (Not Shown)	1
32B		AIRFLOW ENHANCEMENT KIT (For S/N 602128 and earlier with long rods (4cm-5cm) (See Note 2) (Not Shown)	1
33	(See Note 1)	SCREW, Taptite, M3 X 12, Zn	1
34	(See Note 1)	WASHER, Plain, #4, ZN	1
35	78-8099-8772-6	SPACER, Condenser	2

Note 1. Order the 9000 Series Hardware Repair Kit (78-8054-1818-9). This kit contains a complete set of hardware for the 9800 O.H.P.

Note 2. Airflow Enhancement Kit for S/N 602128 and earlier with **long** rods (4cm-5cm) order the following:

.....	78-8097-3645-3	OPTICAL ASSEMBLY	1
.....	78-8003-8335-4	TIE/STRAP	3
.....	26-1009-9931-2	SCREW, Taptite M4x8 (for U.S. bracket only)	1
<i>Also order one of the following:</i>			
.....	78-8097-3685-9	BRACKET, Transformer Deflector (U.S.)	1
.....	78-8097-3684-2	BRACKET, Transformer Deflector (Japan) (ABKJ)	1
.....	78-8097-3683-4	BRACKET, Transformer Deflector (International)	1

Section 10
LAMP CHANGER ASSEMBLY



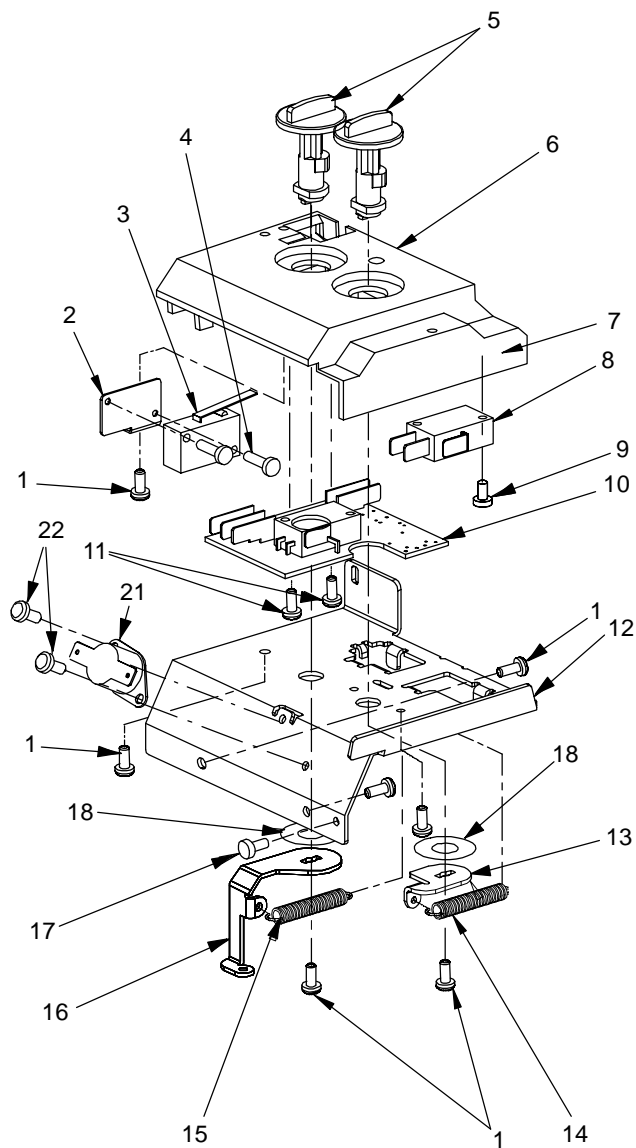
Section 10
LAMP CHANGER ASSEMBLY

Item			
No.	Part Number	Description	Qty
1	(See Note 1)	SCREW, Plastite, 6-19 x 5/16	12
2	78-8097-3564-6	SHIELD, Exhaust	1
3	(See Note 1)	SCREW, Taptite, M3.5 x 6	3
4	(See Note 1)	SCREW, Taptite, M3 x 12	2
5	26-1005-9599-5	FUSE, 5 Amp	1
6	Not Available	SWITCH, On/Off	1
7	(See Note 1)	SCREW, Taptite, M3 x 6	1
8	26-1005-6624-4	FUSEHOLDER	1
9	Not Available	BRACKET, Power Switch Mount	1
10	78-8057-4184-6	LABEL, Fuse, 5 Amp	1
11	78-8079-8988-0	ROD, Lamp Changer	1
12	78-8097-3518-2	LEVER, Lamp Changer	1
13	78-8097-3595-0	BUSHING	1
14	26-1005-7814-0	RING, Grip	1
15	78-8097-3519-0	BRACKET, Lever	1
16	78-8079-8752-0	HOUSING, Lamp	1
17A	78-8097-3627-1	LABEL, Lamp Replacement (U.S.)	1
17B	78-8097-3583-6	LABEL, Lamp Replacement (Outside U.S.)	1
18A	78-8079-9201-7	LABEL, Service (Australia) (AHKA)	1
18B	78-8073-3292-5	LABEL, Service (New Zealand) (AHKN)	1
19	78-8079-8797-5	PLATE, Cord, Small (Gray)	1
20	(See Note 1)	SCREW, Plastite, 6-19 x 3/8	2
21	Not Available	BRACE, Lamp Module	1

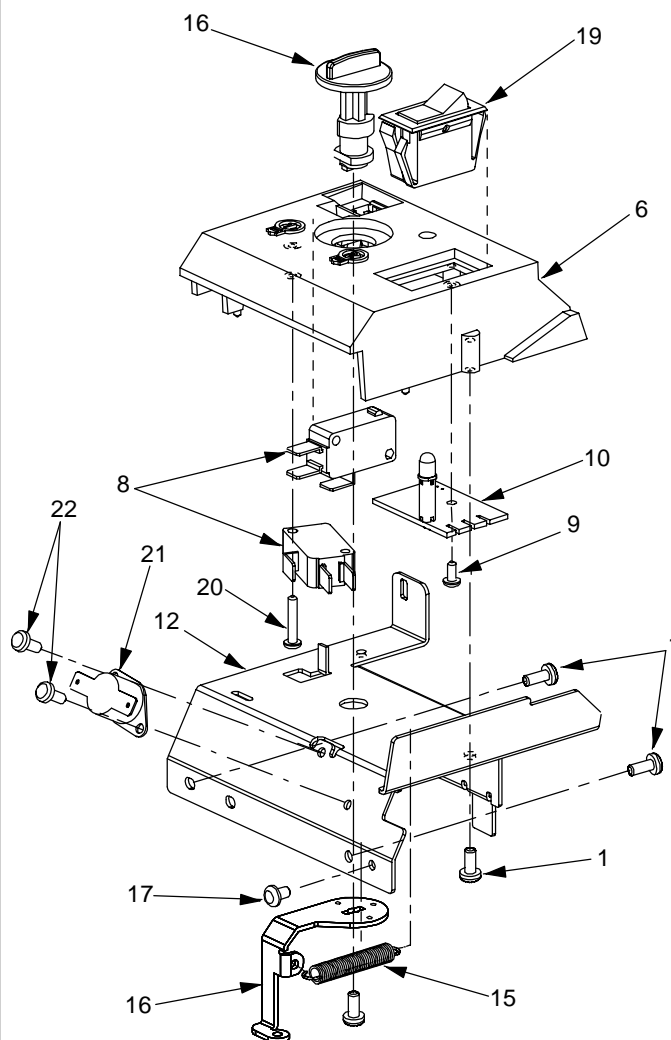
Note 1. Order the 9000 Series Hardware Repair Kit (78-8054-1818-9). This kit contains a complete set of hardware for the 9800 O.H.P.

Section 11
CONTROL MODULE

Used in M9800 serial no. 615041 and earlier.



Used in M9800 serial no. 615042 and up.

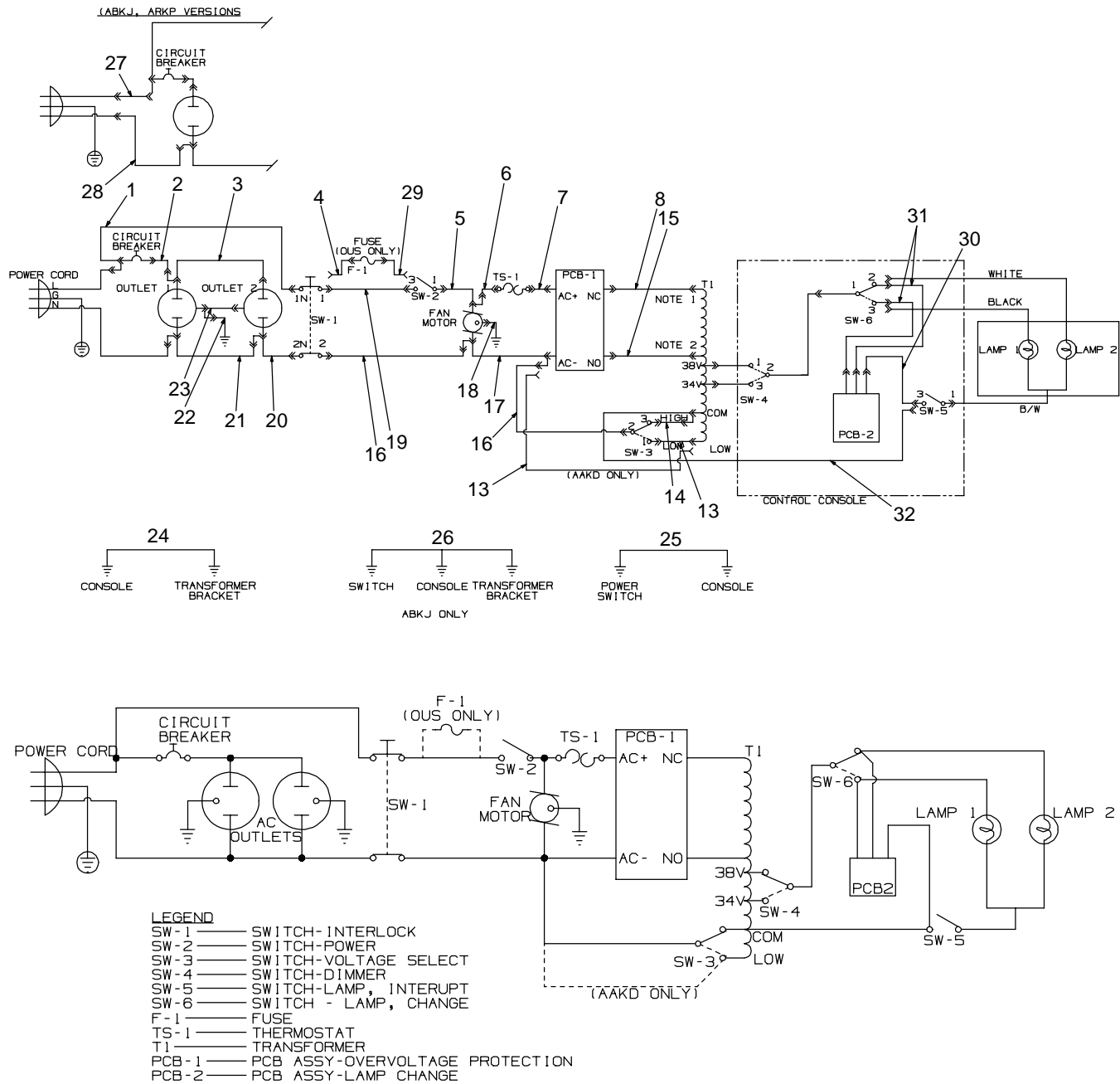


Section 11 CONTROL MODULE

Item No.	Part Number	Description	Qty
0	78-8097-3646-1	LAMP CHANGER AND HI/LO CONTROL MODULE (Complete Assembly)	1
1	(See Note 1)	SCREW, Plastite, 6-19 x 5/16	1
2	78-8079-8886-6	ADAPTER, Switch, Interlock	1
3	78-8079-8855-1	SWITCH, Micro	1
4	(See Note 1)	SCREW, Taptite, M3 x 12	2
5A	78-8079-8880-9	KNOB, Lamp Changer (used in serial no. 615041 and earlier)	2
5B	78-8073-2962-4	KNOB, Lamp Changer (used in serial no. 615042 and up)	2
6A	78-8079-8879-1	HOUSING, Control, 2 Hole (used in serial no. 615041 and earlier)	1
6B	78-8073-2954-1	HOUSING, Lamp Changer (used in serial no. 615042 and up)	1
7	Not Available	TAPE, Heat Shield, Control Module	AR
8	78-8079-8855-1	SWITCH, Lamp Changer/Hi/Lo, Dimmer	1
9	(See Note 1)	SCREW, Type BT, 4-24 x 5/8	1
10A	78-8079-8889-0	PCB ASSEMBLY, Lamp Changer (used in serial no. 615041 and earlier)	1
10B	78-8073-3105-9	PCB ASSEMBLY, Lamp Changer (used in serial no. 615042 and up)	1
11	(See Note 1)	SCREW, Taptite, 4-24 x 3/4	2
12A	78-8079-8885-8	BRACKET, Lamp Changer (used in serial no. 615041 and earlier)	1
12B	78-8073-2961-6	BRACKET, Lamp Changer (used in serial no. 615042 and up)	1
13	78-8079-8882-5	LEVER, Switch, Intensity	1
14	Not Available	SPRING, External	1
15	Not Available	SPRING, External,	1
16	78-8079-8987-2	LEVER, Lamp Changer	1
17	(See Note 1)	SCREW, Taptite, M3.5 x 6	2
18	(See Note 1)	WASHER, Lamp Changer	2
19	78-8073-2970-7	SWITCH, Hi/Low, EVD	1
20	(See Note 1)	SCREW, Type BT, 4-24 X 3/4, Zn	1
21	78-8079-9010-2	THERMOSTAT, Safety (FNT)	1
22	(See Note 1)	SCREW, Taptite, M3.5 X 6, Zn	2

Note 1. Order the 9000 Series Hardware Repair Kit (78-8054-1818-9). This kit contains a complete set of hardware for the 9800 O.H.P.

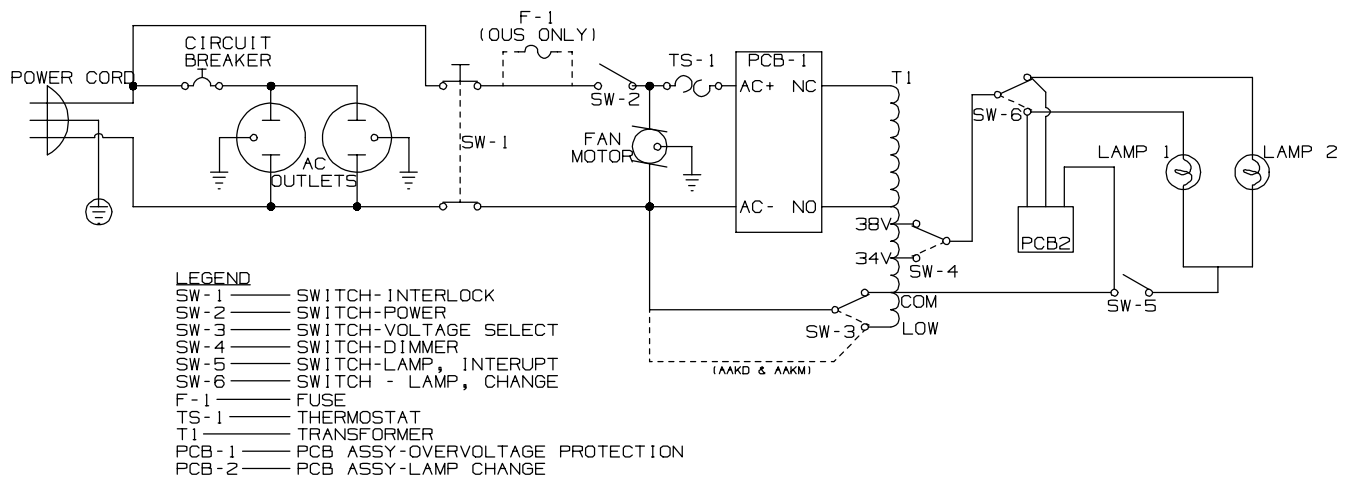
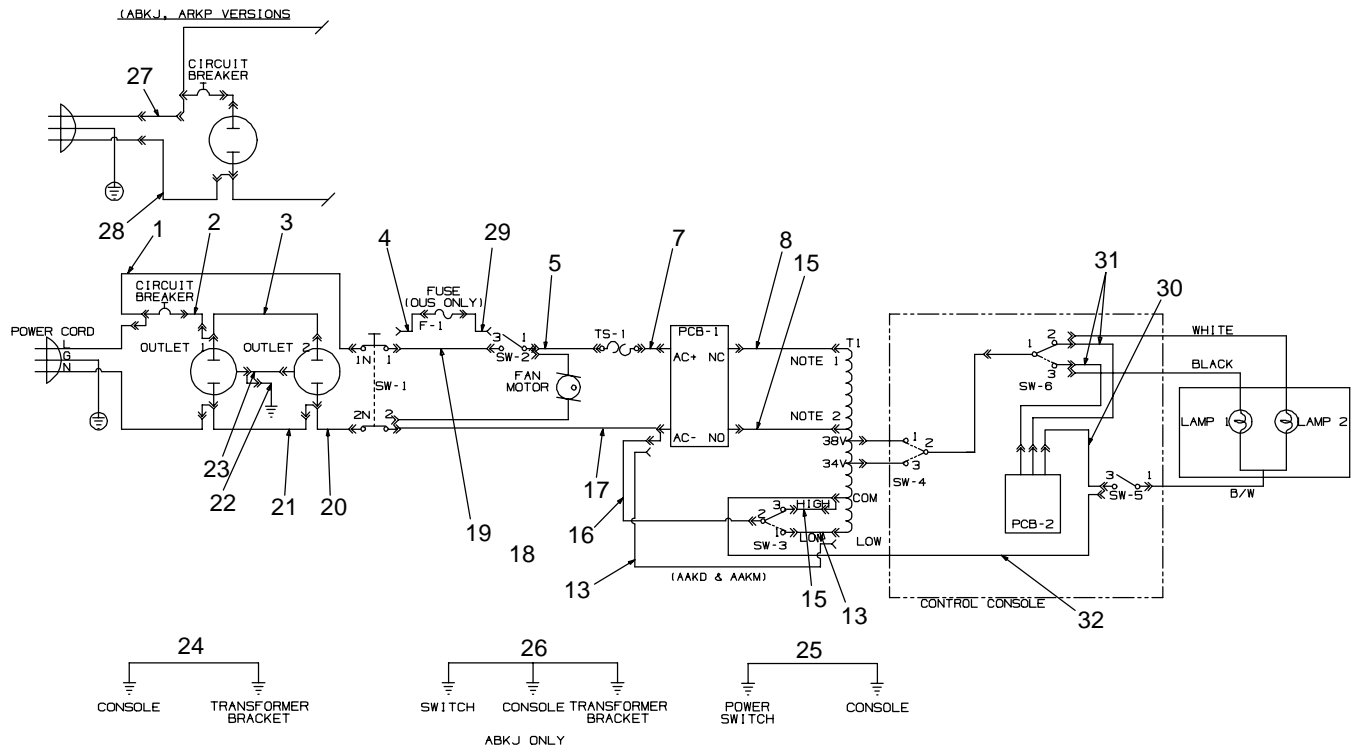
Section 12
WIRE JUMPERS
(Prior to S/N 623858)



Section 12
WIRE JUMPERS
(Prior to S/N 623858)

Item No.	Part Number	Description	Qty
1	78-8097-3625-5	JUMPER, 12", Dbl, Black	1
2A	78-8097-3619-8	JUMPER, 5", Black	1
2B	78-8097-3620-6	JUMPER, 5", Black	1
2C	78-8097-3621-4	JUMPER, 5", Black	1
3A	78-8097-3604-0	JUMPER, 4.5", Black	1
3B	78-8097-3605-7	JUMPER, 4.5", Black	1
3C	78-8097-3606-5	JUMPER, 3.5", Black	1
4	78-8079-8973-2	JUMPER, Switch To Fuseholder	1
5	Not Available	JUMPER, 8.75"	1
6	78-8097-3550-5	JUMPER, 23", Black	1
7	78-8097-3549-7	JUMPER, 4.5", Black	1
8	78-8097-3547-1	JUMPER, 12", Orange	1
9-12	.. Not Used		
13	78-8097-3603-2	JUMPER, 8", Grey	2
14A	Not Available	JUMPER, 16", Yellow	1
14B	Not Available	JUMPER, 19", Yellow	1
15	78-8097-3546-3	JUMPER, 11", Red	1
16	78-8097-3545-5	JUMPER, 7", Blue	1
17	78-8097-3548-9	JUMPER, 25", White	1
18	Not Available	JUMPER, 11", Green/Yellow, Ring, .25 Rec.	1
19	78-8079-9005-2	JUMPER, 12.5", Black	1
20A	78-8097-3554-7	JUMPER, 11", Dbl, White	1
20B	78-8097-3555-4	JUMPER, 12", White	1
21A	78-8097-3607-3	JUMPER, 4.5", White	1
21B	78-8097-3608-1	JUMPER, 4.5", White	1
21C	78-8097-3609-9	JUMPER, 3.5", White	1
22A	78-8097-3613-1	JUMPER, 12.5", Green/Yellow	1
22B	78-8097-3614-9	JUMPER, 15", Green/Yellow	1
22C	78-8097-3615-6	JUMPER, 15", Green/Yellow	1
23A	78-8097-3610-7	JUMPER, 4.5", Green/Yellow	1
23B	78-8097-3611-5	JUMPER, 5.5", Green/Yellow	1
23C	78-8097-3612-3	JUMPER, 3.5", Green/Yellow	1
24	78-8097-3616-4	JUMPER, 26.5", Green/Yellow	1
25	Not Available	JUMPER, 7", Green/Yellow, Ring, Ring	1
26	Not Available	JUMPER, Harness, Green, Ground	1
27	Not Available	JUMPER, 4", Black (ABKJ, ARKP)	1
28	Not Available	JUMPER, 4", White (ABKJ, ARKP)	1
29	78-8097-3619-8	JUMPER, 5", Black	1
30	78-8073-2973-1	JUMPER, Switch, PCB, 5"	1
31	78-8073-3015-5	JUMPER, Switch, PCB, 3.75"	1
32	78-8073-3014-3	JUMPER, 26"	1

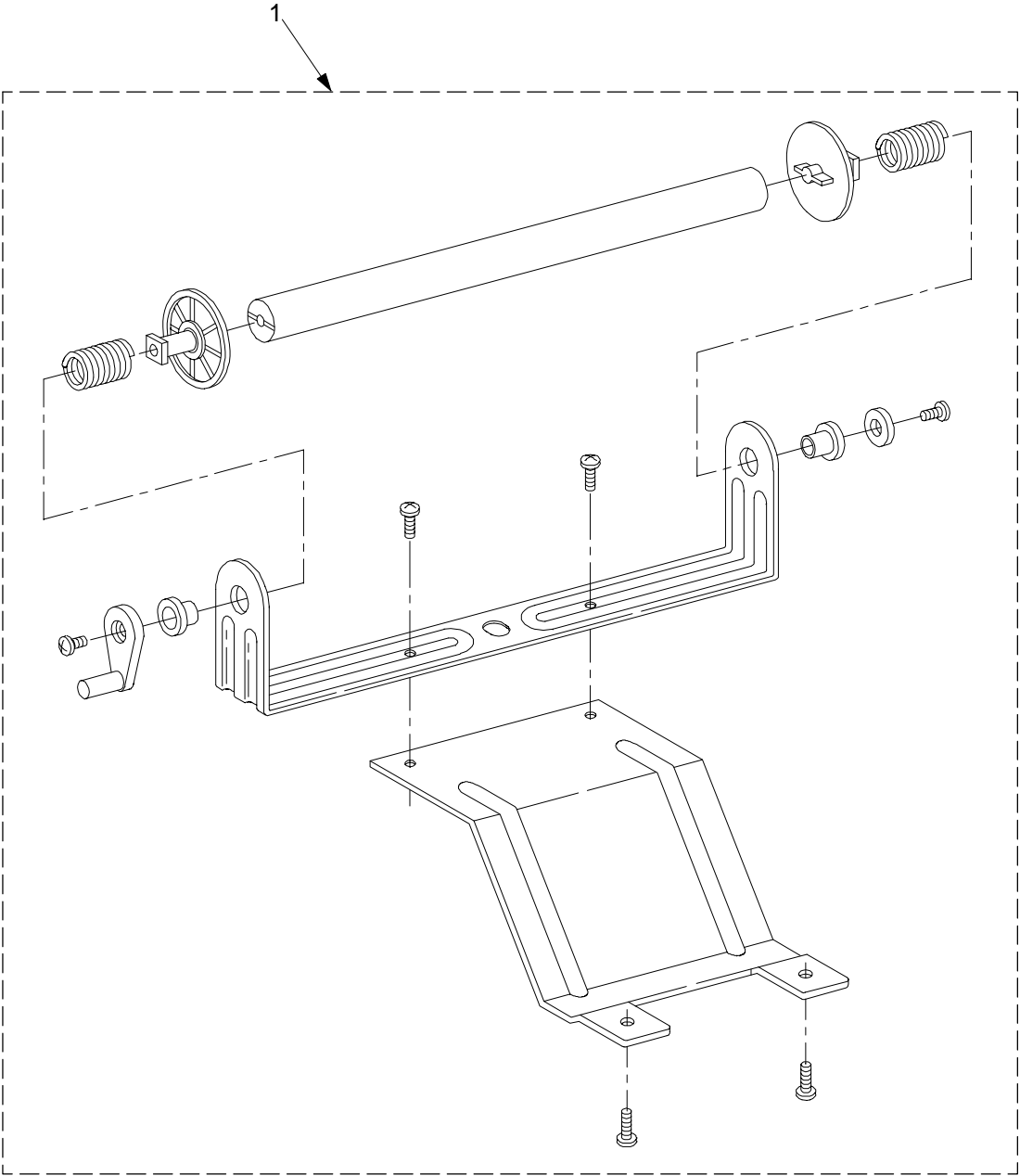
Section 13
WIRE JUMPERS
(S/N 623858 and above)



Section 13
WIRE JUMPERS
(S/N 623858 and above)

Item No.	Part Number	Description	Qty
1	78-8097-3625-5	JUMPER, 12", Dbl, Black	1
2A	78-8097-3619-8	JUMPER, 5", Black	1
2B	78-8097-3620-6	JUMPER, 5", Black	1
2C	78-8097-3621-4	JUMPER, 5", Black	1
3A	78-8097-3604-0	JUMPER, 4.5", Black	1
3B	78-8097-3605-7	JUMPER, 4.5", Black	1
3C	78-8097-3606-5	JUMPER, 3.5", Black	1
4	78-8079-8973-2	JUMPER, Switch To Fuseholder	1
5	78-8054-1766-0	JUMPER, 29", Black	1
6	Not Used		
7	78-8097-3549-7	JUMPER, 4.5", Black	1
8	78-8097-3547-1	JUMPER, 12", Orange	1
9-12	Not Used		
13	78-8097-3603-2	JUMPER, 8", Grey	2
14	Not Used		
15	78-8097-3546-3	JUMPER, 11", Red	1
16	Not Used		
17	78-8097-3548-9	JUMPER, 25", White	1
18	Not Used		
19	78-8079-9005-2	JUMPER, 12.5", Black	1
20A	78-8097-3554-7	JUMPER, 11", Dbl, White	1
20B	78-8097-3555-4	JUMPER, 12", White	1
21A	78-8097-3607-3	JUMPER, 4.5", White	1
21B	78-8097-3608-1	JUMPER, 4.5", White	1
21C	78-8097-3609-9	JUMPER, 3.5", White	1
22A	78-8097-3613-1	JUMPER, 12.5", Green/Yellow	1
22B	78-8097-3614-9	JUMPER, 15", Green/Yellow	1
22C	78-8097-3615-6	JUMPER, 15", Green/Yellow	1
23A	78-8097-3610-7	JUMPER, 4.5", Green/Yellow	1
23B	78-8097-3611-5	JUMPER, 5.5", Green/Yellow	1
23C	78-8097-3612-3	JUMPER, 3.5", Green/Yellow	1
24	78-8097-3616-4	JUMPER, 26.5", Green/Yellow	1
25	Not Available	JUMPER, 7", Green/Yellow, Ring, Ring	1
26	Not Available	JUMPER, Harness, Green, Ground	1
27	Not Available	JUMPER, 4", Black (ABKJ, ARKP)	1
28	Not Available	JUMPER, 4", White (ABKJ, ARKP)	1
29	78-8097-3619-8	JUMPER, 5", Black	1
30	78-8073-2973-1	JUMPER, Switch, PCB, 5"	1
31	Not Available	JUMPER, Switch, PCB, 3.75"	1
32	78-8073-3014-3	JUMPER, 26"	1

Section 14
 ROLLER ASSEMBLY



Item No.	Part Number	Description	Qty
1A	78-6969-7214-6 ..	KIT, Roll Film, 10-1/4 in. (260.4 mm) (Complete assembly)	1
1B	78-6969-7455-5 ..	KIT, Roll Film, 11-1/4 in. (285.7 mm) (Complete assembly)	1
2A	78-9020-1282-8 ..	FILM, Roll, 10-1/4 in. (260.4 mm) (Not shown)	1
2B	78-6969-1751-3 ..	FILM, Roll, 11-1/4 in. (285.7 mm) (Not shown)	1

Appendix A
SPECIFICATIONS

Model Description	Country	Power Cord	Model Alpha	Stock Number	Voltage	Agency	Stage Size	Head Type	Lampchanger	Color Tuning	Post Type	Lamp Type	Handle	Lamp Control	Lamps Installed	Fresnel	Power	Fuse	Cord Wrap
M9000 High Lumen Overhead Projector	Australia	Australian	9800 AHKA	78-9236-5898-9	240V 50Hz	SAA	A4	Open Triplet	Yes	External	Folding	EVD	Yes	Auto Dimmer	2	Dual Element Clear	Transformer	T5A	Yes
M9000 High Lumen Overhead Projector	Chile	Italian	9800 AHKC	78-9236-5908-6	230V 50Hz		A4	Open Triplet	Yes	External	Folding	EVD	Yes	Auto Dimmer	2	Dual Element Clear	Transformer	T5A	Yes
M9000 High Lumen Overhead Projector	Denmark	European	9800 AHKW	78-9236-6183-5	230V 50Hz		A4	Open Triplet	Yes	External	Folding	EVD	Yes	Auto Dimmer	2	Dual Element Clear	Transformer	T5A	Yes
M9000 High Lumen Overhead Projector	Europe Std.	European	9800 AHKS	78-9236-5895-5	230V 50Hz	European	A4	Open Triplet	Yes	External	Folding	EVD	Yes	Auto Dimmer	2	Dual Element Clear	Transformer	T5A	Yes
M9000 High Lumen Overhead Projector	Hong Kong	United Kingdom	9800 AHKH	78-9236-5901-1	220V 50Hz	CSA	A4	Open Triplet	Yes	External	Folding	EVD	Yes	Auto Dimmer	2	Dual Element Clear	Transformer	T5A	Yes
M9000 High Lumen Overhead Projector	Japan	Japan	9800 ABKJ	78-9236-5899-7	100V 50/60Hz	MIDI	A4	Open Triplet	Yes	External	Folding	EVD	Yes	Auto Dimmer	2	Dual Element Clear	Transformer	T5A	Yes
M9000 High Lumen Overhead Projector	Korea	European	9800 AHKK	78-9236-5906-0	220V 60Hz		A4	Open Triplet	Yes	External	Folding	EVD	Yes	Auto Dimmer	2	Dual Element Clear	Transformer	T5A	Yes
M9000 High Lumen Overhead Projector	Mexico	United States	9800 AAKM	78-9236-6185-0	127V 60Hz		A4	Open Triplet	Yes	External	Folding	EVD	Yes	Auto Dimmer	2	Dual Element Clear	Transformer	None	Yes
M9000 High Lumen Overhead Projector	New Zealand	Australian	9800 AHKN	78-9236-5905-2	240V 50Hz		A4	Open Triplet	Yes	External	Folding	EVD	Yes	Auto Dimmer	2	Dual Element Clear	Transformer	T5A	Yes
M9000 High Lumen Overhead Projector	Phillipines	European	9800 ARKP	78-9236-5902-9	240V 60Hz		A4	Open Triplet	Yes	External	Folding	EVD	Yes	Auto Dimmer	2	Dual Element Clear	Transformer	T5A	Yes
M9000 High Lumen Overhead Projector	Phillippines	Japan	9800 ARKP	78-9236-5902-9	240V 50Hz		A4	Open Triplet	Yes	External	Folding	EVD	Yes	Auto Dimmer	2	Dual Element Clear	Transformer	T5A	Yes
M9000 High Lumen Overhead Projector	Saudi Arabia	United States	9800 AAKD	78-9236-5903-7	127V 60Hz		A4	Open Triplet	Yes	External	Folding	EVD	Yes	Auto Dimmer	2	Dual Element Clear	Transformer	None	Yes
M9000 High Lumen Overhead Projector	Singapore	United Kingdom	9800 AHKE	78-9236-6186-8	240V 50Hz		A4	Open Triplet	Yes	External	Folding	EVD	Yes	Auto Dimmer	2	Dual Element Clear	Transformer	T5A	Yes
M9000 High Lumen Overhead Projector	South Africa	South Africa	9800 AHKR	78-9236-5900-3	240V 50Hz	SABS	A4	Open Triplet	Yes	External	Folding	EVD	Yes	Auto Dimmer	2	Dual Element Clear	Transformer	T5A	Yes
M9000 High Lumen Overhead Projector	Swiss	Swiss	9800 AHKZ	78-9236-5897-1	230V 50Hz	SEV	A4	Open Triplet	Yes	External	Folding	EVD	Yes	Auto Dimmer	2	Dual Element Clear	Transformer	T5A	Yes
M9000 High Lumen Overhead Projector	Taiwan	United States	9800 AAKT	78-9236-5904-5	120V 60Hz		A4	Open Triplet	Yes	External	Folding	EVD	Yes	Auto Dimmer	2	Dual Element Clear	Transformer	T5A	Yes
M9000 High Lumen Overhead Projector	Thailand	European	9800 AHKF	78-9236-5907-8	220V 50Hz		A4	Open Triplet	Yes	External	Folding	EVD	Yes	Auto Dimmer	2	Dual Element Clear	Transformer	T5A	Yes
M9000 High Lumen Overhead Projector	United Kingdom	United Kingdom	9800 AHKU	78-9236-5896-3	240V 50Hz	European	A4	Open Triplet	Yes	External	Folding	EVD	Yes	Auto Dimmer	2	Dual Element Clear	Transformer	T5A	Yes
M9000 High Lumen Overhead Projector	United States	United States	9800 AJK	78-9236-5894-8	120V 60Hz	UL/CSA	A4	Open Triplet	Yes	External	Folding	EVD	Yes	Auto Dimmer	2	Dual Element Clear	Transformer	None	Yes
M9000 High Lumen Overhead Projector	United States	United States	9800 AKK	78-9236-6238-7	120V 60Hz	UL/CSA	A4	Open Triplet	Yes	External	Folding	EVD	Yes	Auto Dimmer	2	Dual Element Clear	Transformer	None	Yes

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Visual Systems Division

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